

I hereby certify that the following Agenda was posted at least 72 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at [www.socwa.com](http://www.socwa.com).



Danita Hirsh, Assistant Board Secretary  
SOCWA and the Board of Directors thereof

*Regular Meeting of The  
South Orange County Wastewater Authority  
Board of Directors*

February 2, 2023  
8:30 a.m.

PHYSICAL MEETING LOCATION:  
34156 Del Obispo Street  
Dana Point, CA 92629

IN ACCORDANCE WITH AB361, MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE AND MAY JOIN THE MEETING VIA ONLINE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE PHONE NUMBER FOR AUDIO PARTICIPATION (USE PHONE NUMBERS BELOW). THIS IS A PHONE CALL MEETING AND NOT A WEB-CAST MEETING, SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT [WWW.SOCWA.COM](http://WWW.SOCWA.COM). ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION.

PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMENTS. COMMENTS MAY ALSO BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY DANITA HIRSH AT [DHIRSH@SOCWA.COM](mailto:DHIRSH@SOCWA.COM).

IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST DISABILITY RELATED ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE BY PHONE REQUEST MADE TO THE AUTHORITY ADMINISTRATIVE OFFICE AT 949-234-5452. THE AUTHORITY ADMINISTRATIVE OFFICES ARE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"), BUT ARE NOT OPEN TO THE PUBLIC DURING THE PERIOD OF STAY AT HOME ORDERS. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE SENT TO PARTICIPANTS REQUESTING VIA EMAIL DELIVERY. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IMMEDIATELY ON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES.

**THE PUBLIC MAY PARTICIPATE REMOTELY BY VIRTUAL MEANS. FOR AUDIO  
OF MEETING USE THE CALL IN PHONE NUMBERS BELOW AND FOR VIDEO  
USE THE ZOOM LINK BELOW.**

Join Zoom Meeting  
<https://socwa.zoom.us/>

Meeting ID: 820 6460 8528  
Passcode: 787657

Dial by your location:

+1 669 900 6833 US (San Jose)      +1 253 215 8782 US (Tacoma)  
+1 346 248 7799 US (Houston)      +1 312 626 6799 US (Chicago)  
Find your local number: <https://socwa.zoom.us/j/kby4BLWBNL>

South Orange County Wastewater Authority  
Board of Directors Meeting  
February 2, 2023

Agenda

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ORAL COMMUNICATIONS

*Members of the public may address the board regarding an item on the agenda or may reserve this opportunity during the meeting at the time the item is discussed by the board. There will be a three-minute limit for public comments.*

PAGE NO

4. AB361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual meetings ..... 1

ACTION The staff recommends that the Board of Directors approve the following findings and actions:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the January 5, 2023 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, February 2, 2023 through the earlier of either March 4, 2023 or the termination of the proclaimed state of emergency, regular and special meetings of the Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board hereby delegates authority to its Standing Committees to make the necessary findings to continue holding virtual meetings in accordance with AB 361, if necessary, and provided that California continues to be in a proclaimed state of emergency.
- E. Staff is hereby directed to notice the upcoming Board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or committee meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.

South Orange County Wastewater Authority  
Board of Directors Meeting  
February 2, 2023

Agenda

PAGE NO

5. CLOSED SESSION

- A. Closed Session Pursuant to Government Code § 54957.6 Conference with Labor Negotiator:

Agency Designated Representative:	Brad Neufeld of Varner & Brandt
Employee Organization:	SOCWA Employee's Association

- B. Closed Session Pursuant to Government Code § 54957.6 Conference with Labor Negotiator:

Agency Designated Representative:	Brad Neufeld of Varner & Brandt
Unrepresented Employee:	General Manager

- C. Report out of Closed Session

6. CONSENT CALENDAR

- A. Minutes of Board of Directors .....21

- Board of Directors Meeting of December 8, 2022

ACTION      The Board will be requested to approve subject Minutes.

- B. Minutes of Project Committee 2.....30

- Project Committee 2 Meeting of January 10, 2023

ACTION      The PC 2 Board will be requested to approve subject Minutes;  
and the Board will be requested to receive and file subject  
Minutes.

- C. Operations Report (*December 2022*).....35

1. Monthly Operational Report
2. SOCWA Ocean Outfall Discharges by Agency
3. Quarterly Report on Key Operational Expenses
4. Beach Ocean Monitoring Report
5. Recycled Water Report
6. Pretreatment Report (*January 2023*)

ACTION      The Board will be requested to receive and file subject reports as  
submitted.

- D. Capital Improvement Program Status Report (January 2023).....84

ACTION      Information item; receive and file.

South Orange County Wastewater Authority  
Board of Directors Meeting  
February 2, 2023

Agenda

PAGE NO

- E. Capital Improvement Construction Projects Progress and Change Order Report (January) [Project Committees 2, 15, & 17] ..... 88
- ACTION      Staff recommend that the Board of Directors receive and file the report as an information item.
- F. Stanley Convergent Security Solution Inc. was acquired by Securitas Technology [Project Committees 2, 15, & 17] ..... 100
- ACTION      Information Item.
- G. Contract Award for Aliso Creek Ocean Outfall Internal Seal Replacement Engineering Services During Construction [Project Committee 24] ..... 101
- ACTION      The Engineering Committee recommends that the PC 24 Board of Directors approve the contract to Black & Veatch in the amount of \$44,850 for the bidding and ESDC services for the ACOO Internal Seal Replacement project.
- H. Emergency Purchase of Replacement Bar Screen Drum for Coastal Treatment Plant (CTP) [Project Committee 15] ..... 107
- ACTION      Staff recommends that the Board of Directors ratify the purchase of the Parkson bar screen drum (Purchase Order #18567) in the amount of \$52,800, plus tax and shipping costs to be determined at the time of shipping.
7. ENGINEERING MATTERS
- A. JB Latham Treatment Plant Electrical System Upgrades Additional Design, Bidding and Engineering Service during Construction [Project Committee 2] ..... 109
- ACTION      The Engineering Committee recommends that the PC 2 Board of Directors approve the contract to Hazen and Sawyer in the amount of \$112,620 for the additional design services, and bidding and ESDC services in the amount of \$164,350 for a total of \$276,970 for the JB Latham Treatment Plant Electrical System Upgrades Project.
8. GENERAL MANAGER'S REPORTS
- A. Santa Margarita Water District (SMWD) / Moulton Niguel Water District (MNWD) Consideration and Action on South OC Wastewater Optimization Blueprint ..... 118
- a. Presentation by SMWD and MNWD
- b. Discussion regarding proposal as applicable to the JB Latham Plant and Project Committee No. 2
- ACTION      Board Discussion/Direction and Action.

South Orange County Wastewater Authority  
Board of Directors Meeting  
February 2, 2023

Agenda

PAGE NO

- B. JPA & Project Committee Agreement Revisions.....
- a. Future of the Joint Powers Agreement / Future Direction for SOCWA
- ACTION      Board Discussion/Direction and Action.
- C. Historical Recycled Water Development and State Opportunities..... 150
- Presentation by Amber Baylor, Director of Environmental Compliance  
(provided *under separate cover*)
- ACTION      Information Item.
- D. Tentative Time Schedule Order R9-2023-006 Comment Letter (*under separate cover*) ..... 151
- ACTION      Staff recommends that the Board of Directors authorize the Acting  
General Manager to: 1) Sign the Comment letter as distributed, and  
2) submit the final letter to be included in the Tentative TSO.
- E. General Counsel's Updates.....
- JPA Revision Process (Standing item)
- ACTION      Board Discussion/Direction and Action.
- F. General Manager's Status Report ..... 153
- ACTION      Information Items, Board Discussion/Direction and Action.
- G. Upcoming Meetings Schedule: .....
- a. February 2, 2023 – Board of Directors Regular Meeting
- b. February 9, 2023 – Engineering Committee Meeting
- c. February 14, 2023 – PC 2 Committee / SOCWA Emp. Assoc. Meeting
- d. February 21, 2023 – Finance Committee Meeting
- e. February 21, 2023 – PC 2 Committee Meeting
- f. March 2, 2023 – Board of Directors Regular Meeting
- ACTION      Information Item.

B. OTHER MATTERS

Determine the need to take action on the following item(s) introduced by the General Manager which arose subsequent to the agenda being posted. [Adoption of this action requires a two-thirds vote of the Board, or if less than two-thirds are present, a unanimous vote.]

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING  
MARCH 2, 2023

# Agenda Item

# 4

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**SUBJECT:** AB 361 – Allowing for Virtual Meetings - Findings and Approval to Continue Virtual Meetings

## BACKGROUND

On March 4, 2020, the Governor declared a state of emergency arising from the Covid-19 pandemic. Pursuant to Government Code 54953(e)(1), if a state of emergency exists, and state or local officials have imposed or recommended measures to promote social distancing, or if a majority of the SOCWA Board of Directors (“Board”) determines that meeting in person would present imminent risks to the health and safety of attendees, then the Board can utilize telephonic or virtual meetings without compliance with the telephonic agenda provisions of the Brown Act found in Government Code 54953(b)(3). Consistent with findings made and the action taken at the January 5, 2023 Board Meeting, the Board held its January Board, committee, and PC meetings virtually under AB 361. The Board’s 30-day findings will expire on February 4, 2023.

California continues to be in a proclaimed state of emergency. The Omicron variant is highly transmissible and has been identified in Orange County. The current County of Orange Health Officer’s Orders and Strong Recommendations revised September 23, 2022 (attached to this staff report) contain “strong recommendations” promoting social distancing for vulnerable populations, which include individuals over 65 years old and those with underlying health conditions. In light of the ongoing state of emergency and these local recommendations, the Board may conduct today’s meeting virtually pursuant to Government Code 54953(e)(1)(A). In order to continue holding virtual board, regular and special, committee, and PC meetings over the next 30 days, the Board must make the required findings set forth below, and must continue making these findings every 30 days thereafter. The Board may also delegate this authority to its Standing Committees to allow them to make the necessary findings at a duly noticed public meeting.

## DISCUSSION

AB 361 amends the Brown Act and allows for public organizations to use virtual meetings through January 1, 2024 if any of the following circumstances are met:

- (A) The legislative body holds a meeting during a proclaimed state of emergency, and state or local officials have imposed or recommended measures to promote social distancing.
- (B) The legislative body holds a meeting during a proclaimed state of emergency for the purpose of determining, by majority vote, whether as a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.
- (C) The legislative body holds a meeting during a proclaimed state of emergency and has determined, by majority vote, that, as a result of the emergency, meeting in person would

present imminent risks to the health or safety of attendees.

In accordance with AB 361, when a governing board wants to continue holding virtual meetings because a state of emergency continues, the board must make findings every 30 days that 1) the board has reconsidered the circumstances of the state of emergency and 2) the state of emergency continues to directly impact the ability of the members to meet safely in person or state or local officials continue to impose or recommend measures to promote social distancing.

The County of Orange Health Officer's Orders and Strong Recommendations, revised September 23, 2022 (attached), contain a "strong recommendation" that vulnerable populations, including older persons and individuals with underlying health conditions, take preventive measures for Covid-19 including social distancing and mask-wearing when around people from different households. The Covid-19 data and information regarding positive cases, deaths and hospitalizations are available at this website: <https://occovid19.ochealthinfo.com/coronavirus-in-oc>. Board members are encouraged to review the local data in making determinations to support the recommended findings. As of January 19, 2023, the OC Health Care Agency reported 1,515 positive weekly cases, 23 weekly deaths, 248 current hospitalizations, and 28 current cases in ICU.

**THEREFORE, IN LIGHT OF THE ABOVE, STAFF RECOMMENDS THAT THE BOARD APPROVE THE FOLLOWING FINDINGS AND ACTIONS:**

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the January 5, 2023 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, February 2, 2023 through the earlier of either March 4, 2023 or the termination of the proclaimed state of emergency, regular and special meetings of the Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board hereby delegates authority to its Standing Committees to make the necessary findings to continue holding virtual meetings in accordance with AB 361, if necessary, and provided that California continues to be in a proclaimed state of emergency.
- E. Staff is hereby directed to notice the upcoming Board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or committee meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.

[.https://www.ocgov.com\)](https://www.ocgov.com)[Home \(/\)](#) / **OC Health Officer's Orders & Recommendations**

# OC Health Officer's Orders & Recommendations

For the PDF English version, click [here \(/sites/virus/files/2022-09/9.16.22\\_Health\\_Officer\\_Orders\\_and\\_Recommendations\\_Final\\_Version\\_2.pdf\)](/sites/virus/files/2022-09/9.16.22_Health_Officer_Orders_and_Recommendations_Final_Version_2.pdf).

For translation, please click on the black "Translate" button on the top right to translate the same order displayed below.



**REGINA CHINSIO-KWONG, DO**  
COUNTY HEALTH OFFICER/  
CHIEF MEDICAL OFFICER

**MATTHEW ZAHN, MD**  
DEPUTY COUNTY HEALTH OFFICER, PUBLIC  
HEALTH SERVICES/  
MEDICAL DIRECTOR CDCD

405 W. 5TH STREET, 7TH FLOOR  
SANTA ANA, CA 92701  
[www.ochealthinfo.com](http://www.ochealthinfo.com)  
[.http://www.ochealthinfo.com\)](http://www.ochealthinfo.com)

**COUNTY OF ORANGE HEALTH OFFICER'S  
ORDERS AND STRONG RECOMMENDATIONS**  
(Revised September 23, 2022)



In light of recent updated COVID-19 State Public Health Officer Orders on masking guidance, vaccine requirements and testing recommendations, the following Orders and Strong Recommendations shall revise and replace the prior Orders and Strong Recommendations of the County Health Officer that were issued on September 16, 2022. The Orders and Strong Recommendations issued on September 16, 2022, are no longer in effect as of September 23, 2022.

Pursuant to California Health and Safety Code sections 101030, 101040, 101470, 120175, and 120130, the County Health Officer for County of Orange orders and strongly recommends the following:

## **ORDERS**

Effective immediately, and continuing until further notice, the following shall be in effect in unincorporated and incorporated territories of Orange County, California:

### **I. Self-Isolation of Persons with COVID-19 Order**

*NOTE: This Self-Isolation Order DOES NOT in any way restrict access by first responders to an isolation site during an emergency.*

#### **1. Persons who are symptom-free but test positive for COVID-19.**

If you do not have any COVID-19 symptoms (as defined below in this Order) but test positive for COVID-19, you shall immediately isolate yourself in your home or another suitable place for at least 5 days from the date you test positive and may end your self-isolation after day 5:

- If you continue not having any COVID-19 symptoms and a diagnostic specimen collected on day 5 or later tests negative.
  - While an antigen test, nucleic acid amplification test (NAAT), or LAMP test are acceptable, use of an antigen test is recommended. Use of Over-the-Counter tests are also acceptable to end isolation.

#### **Exceptions.**

- If you are unable or choose not to test on day 5 or after, or if you test positive after day 5, you shall continue your self-isolation through day 10 from the date of your initial positive test and may end your self-isolation after 10 days from the date of your initial positive test.
- If you develop COVID-19 symptoms during the time of your self-isolation, you shall isolate yourself for at least 10 days from the date of symptom(s) onset. You may end your self-

isolation sooner if a diagnostic specimen collected on day 5 (or later) from the date of symptom(s) onset tests negative.

All persons who test positive for COVID-19 should continue to wear a well-fitting mask at all times around other people through day 10.

## 2. Persons who have COVID-19 symptoms.

If you have COVID-19 symptoms, you shall immediately isolate yourself in your home or another suitable place for 10 days from the date of your symptom(s) onset and may end your self-isolation sooner under any of the following conditions:

- If a diagnostic specimen collected as early as the date of your symptom(s) onset tests negative.
  - While an antigen test, nucleic acid amplification test (NAAT), or LAMP test are acceptable, use of an antigen test is recommended. Use of Over-the-Counter tests are also acceptable to end isolation.
    - Note: A negative PCR or antigen test collected on day 1-2 of symptom onset should be repeated in 1-2 days to confirm negative status. While isolation may end after the first negative test, it is strongly recommended to end isolation upon negative results from the repeat test.
- If you obtain an alternative diagnosis from a healthcare provider.

### Exception:

If you have COVID-19 symptoms and test positive for COVID-19, you shall isolate yourself for at least 10 days from the date of symptom(s) onset. You may end your self-isolation sooner if a diagnostic specimen collected on day 5 (or later) from the date of symptom(s) onset tests negative.

You are not required to self-isolate for more than 10 days from the date of your COVID-19 symptom(s) onset regardless of whether your symptoms are present on Day 11.

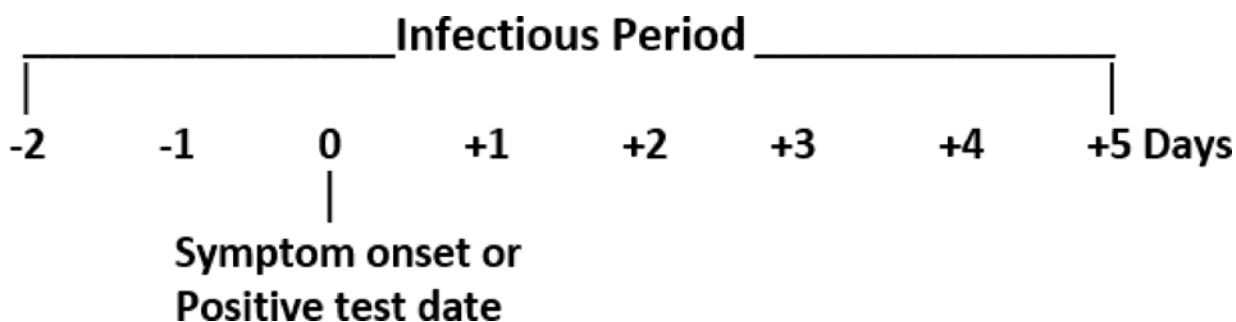
All persons who have COVID-19 symptoms should continue to wear a well-fitting mask at all times around other people through at least Day 10.

### 3. Additional Considerations for Self-Isolation.

- A person who is self-isolated may not leave his or her place of isolation except to receive necessary medical care.
- If a more specific and individualized isolation order is issued by the County Health Officer for any county resident, the resident shall follow the specific order instead of the order herein.
- People who are severely ill with COVID-19 might need to stay in self-isolation longer than 5 days and up to 20 days after symptoms first appeared. People with weakened immune systems should talk to their healthcare provider for more information.
- Rebound: Regardless of whether an individual has been treated with an antiviral agent, risk of transmission during COVID-rebound can be managed by following CDC's guidance on isolation (<https://www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation.html> (<https://www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation.html>)). An individual with rebound may end re-isolation after 5 full days of isolation with resolution of their fever for 24 hours without the use of fever-reducing medication and if symptoms are improving. The individual should wear a mask for a total of 10 days after rebound symptoms started.
  - More information can be found at <https://www.cdph.ca.gov/Programs/OPA/Pages/CAHAN/CAHAN-Paxlovid-Recurrence-06-07-22.aspx> (<https://www.cdph.ca.gov/Programs/OPA/Pages/CAHAN/CAHAN-Paxlovid-Recurrence-06-07-22.aspx>).

#### **Timing for "Day 0" - As noted in CDPH Isolation and Quarantine Q&A**

(<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Isolation-Quarantine-QA.aspx>), the 5-day clock for isolation period starts on the date of symptom onset or (day 0) for people who test positive after symptoms develop, or initial test positive date (day 0) for those who remain asymptomatic. If an asymptomatic person develops symptoms, and test positive, date of symptom onset is day 0.



**NOTE:** In workplaces, employers and employees are subject to the Isolation and quarantine requirements as stated in the CalOSHA COVID-19 Emergency Temporary Standards (ETS) as modified by the Governor's Executive Order N-5-22 or in some workplaces the Cal/OSHA Aerosol transmissible Diseases (ATD) Standard.

Information about CalOSHA COVID-19 Emergency Temporary Standards (ETS) can be found at <https://www.dir.ca.gov/dosh/coronavirus> (<https://www.dir.ca.gov/dosh/coronavirus>).

### **Definition.**

Whenever the term "symptom" or "*COVID-19 symptom*" is used, it shall mean COVID-19 symptom. People with COVID-19 have had a wide range of symptoms reported – ranging from mild symptoms to severe illness. Symptoms may appear 2-14 days after exposure to the virus. Anyone can have mild to severe symptoms. People with these symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea
- The list above does not include all possible symptoms.

## **II. Face-Coverings/Masks:**

To help prevent the spread of droplets containing COVID-19, all County residents and visitors are required to wear face coverings in accordance with the Guidance for the Use of Face Coverings issued by CDPH, dated September 20, 2022. The Guidance is attached herein as Attachment "A" and can be found at:

**A:** <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>).

NOTE: For Correctional Facilities and Detention centers, when utilizing COVID-19 Community levels to determine masking requirements, an outbreak in these settings is defined as three suspected, probable, or confirmed COVID-19 cases within a 14-day period among residents and/or staff.

No person shall be prevented from wearing a mask as a condition of participation in an activity or entry into a business.

#### Exemptions to masks requirements.

The following individuals are exempt from this mask order:

- Persons younger than two years old.
- Persons with a medical condition, mental health condition, or disability that prevents wearing a mask. This includes persons with a medical condition for whom wearing a mask could obstruct breathing or who are unconscious, incapacitated, or otherwise unable to remove a mask without assistance.
- Persons who are hearing impaired, or communicating with a person who is hearing impaired, where the ability to see the mouth is essential for communication.
- Persons for whom wearing a mask would create a risk to the person related to their work, as determined by local, state, or federal regulators or workplace safety guidelines.
- Additional exceptions to masking requirements in high-risk settings can be found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Face-Coverings-QA.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Face-Coverings-QA.aspx>).

In workplaces, employers and employees are subject to either the Cal/OSHA COVID-19 Emergency Temporary Standards (ETS) or the Cal/OSHA Aerosol Transmissible Diseases (ATD) Standard and should consult those regulations for additional applicable requirements.

### **III. COVID-19 Vaccine Requirement Order**

- Health Care Workers COVID-19 Vaccine Requirement Order:

To help prevent transmission of COVID-19, all workers who provide services or work in facilities described below shall comply with the COVID-19 vaccination and booster dose requirements as set forth in the September 13, 2022, State Health Officer Order. A copy of the State Health Officer Order is attached herein as Attachment "**B**" and can be found at the following link:

**B:** <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>  
(<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>)

Facilities covered by this order include:

- General Acute Care Hospitals
- Skilled Nursing Facilities (including Subacute Facilities)
- Intermediate Care Facilities
- Acute Psychiatric Hospitals
- Adult Day Health Care Centers
- Program of All-Inclusive Care for the Elderly (PACE) and PACE Centers
- Ambulatory Surgery Centers
- Chemical Dependency Recovery Hospitals
- Clinics & Doctor Offices (including behavioral health, surgical)
- Congregate Living Health Facilities
- Dialysis Centers
- Hospice Facilities
- Pediatric Day Health and Respite Care Facilities
- Residential Substance Use Treatment and Mental Health Treatment Facilities

The word, "worker," as used in this Order shall have the same meaning as defined in the State Health Officer's Order, dated September 13, 2022.

- **Local Correctional Facilities and Detention Centers Health Care Worker Vaccination Requirement.**



To prevent the further spread of COVID-19 in local correctional facilities and detention centers, all individuals identified in the State Health Officer Order, effective September 13, 2022, shall comply with the State Health Officer's Order with regards to obtaining COVID-19 vaccination and booster doses. A copy of the State Health Officer Order is attached herein as Attachment "C" and can be found at the following link:

**C:** <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>  
(<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Correctional-Facilities-and-Detention-Centers-Health-Care-Worker-Vaccination-Order.aspx>)

- **Adult Care Facilities and Direct Care Worker Vaccination Requirements.**

To help prevent transmission of COVID-19, all individuals specified below shall comply with the COVID-19 vaccination and booster dose requirements as set forth in the September 13, 2022, State Health Officer Order. A copy of the State Health Officer Order is attached herein as Attachment "D" and can be found at the following link:

**D:** <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Adult-Care-Facilities-and-Direct-Care-Worker-Vaccine-Requirement.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Adult-Care-Facilities-and-Direct-Care-Worker-Vaccine-Requirement.aspx>)

Individuals covered by this order include:

- All workers who provide services or work in Adult and Senior Care Facilities licensed by the California Department of Social Services;
- All in-home direct care services workers, including registered home care aides and certified home health aides, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services;
- All waiver personal care services (WPCS) providers, as defined by the California Department of Health Care Services, and in-home supportive services (IHSS) providers, as defined by the California Department of Social Services, except for those workers who only

provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services;

- All hospice workers who are providing services in the home or in a licensed facility; and
- All regional center employees, as well as service provider workers, who provide services to a consumer through the network of Regional Centers serving individuals with developmental and intellectual disabilities, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services.

#### **IV. Seasonal Flu Vaccination Order:**

##### **Seasonal Flu Vaccination for Certain County Residents.**

All individuals who reside or work in Orange County and fall under one of the following categories, shall obtain the seasonal flu vaccination unless a medical or religious exemption applies: (i) current providers for congregate settings; (ii) current health care providers; and (iii) current emergency responders. However, nothing herein shall be construed as an obligation, on the part of employers, public or private, to require employees obtain the seasonal flu vaccination as a term or condition of employment.

- *Emergency responder* shall mean military or national guard; law enforcement officers; correctional institution personnel; fire fighters; emergency medical services personnel; physicians; nurses; public health personnel; emergency medical technicians; paramedics; emergency management personnel; 911 operators; child welfare workers and service providers; public works personnel; and persons with skills or training in operating specialized equipment or other skills needed to provide aid in a declared emergency; as well as individuals who work for such facilities employing these individuals and whose work is necessary to maintain the operation of the facility.
- *Health care provider* shall mean physicians; psychiatrists; nurses; nurse practitioners; nurse assistants; medical technicians; any other person who is employed to provide diagnostic services, preventive services, treatment services or other services that are integrated with and necessary to the provision of patient care and, if not provided, would adversely impact patient care; and employees who directly assist or are supervised by a direct provider of diagnostic, preventive, treatment, or other patient care services; and employees who do not provide direct health care services to a patient but are otherwise integrated into and necessary to the provision those services – for example, a laboratory technician who processes medical test results to aid in the diagnosis and treatment of a health condition. A person is not a health care provider merely

because his or her employer provides health care services or because he or she provides a service that affects the provision of health care services. For example, IT professionals, building maintenance staff, human resources personnel, cooks, food services workers, records managers, consultants, and billers are not health care providers, even if they work at a hospital of a similar health care facility.

## **STRONG RECOMMENDATIONS**

Effective immediately, and continuing until further notice, the following shall be in effect in unincorporated and incorporated territories in Orange County, California:

### **1. Self-quarantine of Persons Exposed to COVID-19**

- If you are known to be exposed to COVID-19 (regardless of vaccination status, prior disease, or occupation), it is strongly recommended to follow CDPH Quarantine guidance found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Guidance-on-Isolation-and-Quarantine-for-COVID-19-Contact-Tracing.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Guidance-on-Isolation-and-Quarantine-for-COVID-19-Contact-Tracing.aspx>).
- **K-12 Schools and Child Care**
  - Schools/school districts are advised to follow CDPH COVID-19 Public Health Guidance for K-12 Schools in California, 2022-2023 School Year found at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/K-12-Guidance-2022-23-School-Year.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/K-12-Guidance-2022-23-School-Year.aspx>).
  - Child care providers and programs are advised to follow CDPH Guidance for Child Care Providers and Programs found at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Child-Care-Guidance.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Child-Care-Guidance.aspx>).
- **Workplaces**
  - In workplaces, employers and employees are subject to the Quarantine requirement as stated in the Cal/OSHA COVID-19 Emergency Temporary Standards (ETS) as modified by the Governor's Executive Order N-5-22 or in some workplaces the Cal/OSHA Aerosol Transmissible Diseases (ATD) Standard.

*Exposed to COVID-19 or exposure to COVID-19* means sharing the same indoor space (e.g. home, clinic waiting room, airplane, etc.) for a cumulative total of 15 minutes or more over a 24-hour period (for example, three individual 5- minute exposures for a total of 15 minutes) during an infected person's (laboratory-confirmed or a clinical diagnosis) infectious period.

2. **For Vulnerable Populations.** In general, the older a person is, the more health conditions a person has, and the more severe the conditions, the more important it is to take preventive measures for COVID-19 such as getting vaccinated, including boosters, social distancing and wearing a mask when around people who don't live in the same household, and practicing hand hygiene. For more information see <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html> (<https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html>).
3. **COVID-19 Vaccination for County Residents.** All Orange County residents should receive COVID-19 vaccination in accordance with the Federal Food and Drug Administration (FDA) and CDC guidance. Minors, who are eligible to receive COVID-19 vaccination in accordance with the applicable CDC guidelines, should be vaccinated in the presence of their parent or legal guardian.

CDC Guidance can be found at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html> (<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>) and <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html> (<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html>)

4. **Seasonal Flu Vaccination for County Residents.** All County residents who are six months of age or older should obtain the seasonal flu vaccination unless a medical or religious exemption applies.
5. **COVID-19 Vaccination and Testing for Emergency Medical Technicians, Paramedics and Home Healthcare Providers.** To help prevent transmission of COVID-19, it is strongly recommended that all Emergency Medical Technicians, Paramedics, and Home Healthcare Providers (including In Home Supportive Services Program workers) remain up-to-date as defined by CDC with COVID-19 vaccination. CDC Guidance can be found at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html> (<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html>)

## **GENERAL PROVISIONS**

1. The Orders and Strong Recommendations, above, shall not supersede any conflicting or more restrictive orders issued by the State of California or federal government. If any portion of this document or the application thereof to any person or circumstance is held to be invalid, the

remainder of the document, including the application of such part or provision to other persons or circumstances, shall not be affected and shall continue in full force and effect. To this end, the provisions of the orders and strong recommendations are severable.

2. The Orders contained in this document may be enforced by the Orange County Sheriff or Chiefs of Police pursuant to California Health and Safety Code section 101029, and California Government Code sections 26602 and 41601. A violation of a health order is subject to fine, imprisonment, or both (California Health and Safety Code section 120295).

### **REASONS FOR THE ORDERS AND STRONG RECOMMENDATIONS**

1. On February 26, 2020, the County of Orange Health Officer declared a Local Health Emergency based on an imminent and proximate threat to public health from the introduction of COVID-19 in Orange County.
2. On February 26, 2020, the Chairwoman of the Board of Supervisors, acting as the Chair of Emergency Management Council, proclaimed a Local Emergency in that the imminent and proximate threat to public health from the introduction of COVID-19 created conditions of extreme peril to the safety of persons and property within the territorial limits of Orange County.
3. On March 2, 2020, the Orange County Board of Supervisors adopted Resolutions No. 20-011 and No. 20-012 ratifying the Local Health Emergency and Local Emergency, referenced above.
4. On March 4, 2020, the Governor of the State of California declared a State of Emergency to exist in California as a result of the threat of COVID-19.
5. As of September 23, 2022, the County has reported a total of 664,185 recorded confirmed COVID-19 cases and 7,432 of COVID-19 related deaths.
6. Safe and effective authorized COVID-19 vaccines are recommended by the CDC. According to CDC, anyone infected with COVID-19 can spread it, even if they do NOT have symptoms. The novel coronavirus is spread in 3 ways: 1) Breathing in air when close to an infected person who is exhaling small droplets and particles that contain the virus. 2) Having these small droplets and particles that contain virus land on the eyes, nose, or mouth, especially through splashes and sprays like a cough or sneeze. 3) Touching eyes, nose, or mouth with hands that have the virus on them.

See <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>

(<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>)

and <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>

(<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>).

7. The CDPH issued a revised Guidance for the Use of Face Coverings, effective April 20, 2022, available at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx> (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>)
8. According to the CDC and CDPH, older adults, individuals with medical conditions, and pregnant and recently pregnant persons are at higher risk of severe illness when they contract COVID-19. See <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/index.html> (<https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/index.html>)
9. The Orders and the Strong Recommendations contained in this document are based on the following facts, in addition to the facts stated under the foregoing paragraphs: (i) Safe and effective FDA authorized COVID-19 vaccines have been widely available, but certain populations have been slow to getting vaccinated or boosted (ii) the current consensus among public health officials for slowing down the transmission of and avoiding contracting COVID-19 is for at-risk persons to complete a COVID-19 vaccination series and receive a booster if eligible, wear well-fitted mask in indoor settings when around others outside of their household, practice distancing, frequently wash hands with soap (iii) some individuals who contract COVID-19 have no symptoms or have only mild symptoms and so are unaware that they carry the virus and are transmitting it to others; (iv) current evidence shows that the novel coronavirus can survive on surfaces and can be indirectly transmitted between individuals; (v) older adults and individuals with medical conditions are at higher risk of severe illness; (vi) sustained COVID-19 community transmission continues to occur; (vii) the age, condition, and health of a portion of Orange County's residents place them at risk for serious health complications, including hospitalization and death, from COVID-19; (viii) younger and otherwise healthy people are also at risk for serious negative health outcomes and for transmitting the novel coronavirus to others.
10. The orders and strong recommendations contained in this document are necessary and less restrictive preventive measures to control and reduce the spread of COVID-19 in Orange County, help preserve critical and limited healthcare capacity in Orange County and save the lives of Orange County residents.
11. The California Health and Safety Code section 120175 requires the County of Orange Health Officer knowing or having reason to believe that any case of a communicable disease exists or has recently existed within the County to take measures as may be necessary to prevent the spread of the disease or occurrence of additional cases.
12. The California Health and Safety Code sections 101030 and 101470 require the county health officer to enforce and observe in the unincorporated territory of the county and within the city

boundaries located with a county all of the following: (a) Orders and ordinances of the board of supervisors, pertaining to the public health and sanitary matters; (b) Orders, including quarantine and other regulations, prescribed by the department; and (c) Statutes relating to public health.

13. The California Health and Safety Code section 101040 authorizes the County of Orange Health Officer to take any preventive measure that may be necessary to protect and preserve the public health from any public health hazard during any "state of war emergency," "state of emergency," or "local emergency," as defined by Section 8558 of the Government Code, within his or her jurisdiction. "Preventive measure" means abatement, correction, removal, or any other protective step that may be taken against any public health hazard that is caused by a disaster and affects the public health.
14. The California Health and Safety Code section 120130 (d) authorizes the County of Orange Health Officer to require strict or modified isolation, or quarantine, for any case of contagious, infectious, or communicable disease, when such action is necessary for the protection of the public health.

#### **IT IS SO ORDERED:**

Date: September 23, 2022



Regina Chinsio-Kwong, DD  
County Health Officer  
County of Orange

## **Additional Resources**



**COVID-19 in California**  
(<https://covid19.ca.gov/>)



**Centers for Disease Control and Prevention**  
(<https://www.cdc.gov/coronavirus/2019-nCoV/index.html>)



**World Health Organization**  
(<https://www.who.int/>)





(/)

County Directory Assistance  
855.886.5400

- Navigation ▼
- Quick Links Menu ▼
- Social Media Links ▼

**MINUTES OF SPECIAL MEETING  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

**Board of Directors**

**December 8, 2022**

**DRAFT**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in-person and via teleconference on December 8, 2022, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR	Emerald Bay Service District	Director
KATHRYN FRESHLEY	El Toro Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director
DOUG REINHART	Irvine Ranch Water District	Director
DAVID SHISSLER	City of Laguna Beach	Alternate Director
DAN FERONS	Santa Margarita Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
DAVE REBENDS DORF	City of San Clemente	Director

**Staff Present:**

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
DAVID BARANOWSKI	Director of Engineering
MARY CAREY	Finance Controller
DINA ASH	HR Administrator
RONI GRANT	Associate Engineer
KONSTANTIN SHILKOV	Senior Accountant
NAYDN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
JEANETTE COTINOLA	Procurement/Contracts Manager
MATT CLARKE	Procurement/Contracts Manager
DANITA HIRSH	Executive Assistant

**Also Present:**

ADRIANA OCHOA	Procopio Law	PAUL COOK	Irvine Ranch Water District
ANDREW GAGEN	Kidman Gagen Law, LLP	CLAIRE COLLINS	Hanson Bridgett LLP
DENNIS CAFFERTY	El Toro Water District	KEVIN BURTON	Irvine Ranch Water District
BRAD NEUFELD	Varner & Brandt, LLP	DREW ATWATER	Moulton Niguel Water District
RICK SHINTAKU	South Coast Water District	ALLISON BURNS	Stradling Law
DON FROELICH	Moulton Niguel Water District	DON BUNTS	Santa Margarita Water District
PAM ARENDS-KING	South Coast Water District	MARC SERNA	South Coast Water District
KARI NIEBLAS VOZENILEK	Kidman Gagen Law, LLP	FERNANDO PALUDI	Trabuco Canyon Water District
ROGER BUTOW	Clean Water Now (CWN)	KEVIN DAY	Moulton Niguel Water District
ERICA CASTILLO	Santa Margarita Water District		
JEREMY JUNGREIS	Rutan & Tucker, LLP		
SHERRY WANNIGER	Moulton Niguel Water District		
ROD WOODS	Moulton Niguel Water District		
BILL MOOREHEAD	Moulton Niguel Water District		

**1. Call to Order**

Chairman Collings called the meeting to order at 8:30 a.m.

**2. Pledge of Allegiance – Director Doug Reinhart**

3. Oral Communications

Mr. Roger Butow of Clean Water Now commented on the Stakeholder Concerns Regarding Aliso Creek Estuary Concept letter that was in the November Board packet.

4. BOARD ITEMS:

1. AB 361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual Meetings

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Freshley to approve the findings and actions:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the December 8, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, December 8, 2022, to January 7, 2023, regular and special meetings of the SOCWA Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make the necessary findings to continue holding virtual meetings in accordance with AB 361 if necessary.
- E. Staff is hereby directed to notice the upcoming board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.

Motion carried:	Aye 9, Nay 0, Abstained 0, Absent 0
	Director Dunbar Aye
	Director Freshley Aye
	Director Dopudja Aye
	Director Collings Aye
	Director Reinhart Aye
	Director Shissler Aye
	Director Ferons Aye
	Director Goldman Aye
	Director Rebensdorf Aye

2. PC 2: Update on J.B. Latham Operations

Director Ferons reported that at the PC 2 Meeting Santa Margarita (SMWD) made a motion that passed 2-1 (South Coast Water District – opposed), that as of June 28, 2023, the JB Latham Plant will no longer be operated by SOCWA. The action also included that SMWD would bring back a proposal in January to present to the participating members indicating in detail SMWD plans as operator of the JB Latham Plant. An open discussion ensued.

Director Goldman stated South Coast opposed the motion and wanted to postpone taking an action until there was an opportunity to discuss it with the entire SOCWA Board. He noted that South Coast supports continuing with SOCWA as the operator and is concerned about the motion that was made. He understood the motion that was made and approved by a majority vote to remove SOCWA as operator, but appointing a new operator required a unanimous vote of the Member Agencies of the Project Committee. He asked Ms. Adriana Ochoa, SOCWA's legal counsel to clarify.

Ms. Ochoa stated the language in Section 9.1 of the Joint Powers Agreement (JPA) referenced by Director Ferons, and Director Goldman is two-fold. One of the sentences in the section states that the Project Committee can determine whether or not the authority shall maintain or operate project facilities. That is the action that was taken at the PC 2 Committee Meeting, which was passed by a two to one vote (South Coast opposed) to remove SOCWA as operator. She continued by stating the second relevant sentence in section 9.1 which all of the PC 2 Directors were in agreement about is if a member agency is going to maintain or operate a project facility, it needs the unanimous written consent of all of the PC governing Boards. Ms. Ochoa noted that the action that was taken at the PC 2 meeting was the first step, but the second step was not taken, and the current status as it stands as of July 2023, there will be no operator for JBL.

Ms. Ochoa stated she understood Santa Margarita Water District's plans to bring forth an operating agreement in January for consideration. But given the fact that the motion itself was opposed, if South Coast doesn't give its consent then Santa Margarita will not be able to operate the facility which initiates a situation where there is no current operator proposed for SOCWA when the PC 2 Agreement expires. She noted that having no operator would be very concerning and could result in permit violations and create disruption and potential chaos on the labor side.

Ms. Ochoa stated she was contacted by some of the Member Agencies general counsel asking at what point does the SOCWA Board get involved if there is a potential stalemate by having no operator proposed. She commented if there is a stalemate where two of the three PC 2 Members do not want SOCWA to operate the facility, but the three cannot agree on a proposed operator, which is required under the contract, then at what point does the Board step in? This is one of the reasons that potentially without a second action to cure or to complete the process makes it incomplete by removing an operator without determining who the new one is going to be. She also noted that the action taken at the PC 2 Meeting as it currently stands may or may not be a valid action. She stated there is a whole series on validation action statutes, validation actions, validate or invalidate actions taken by government agencies that she had looked into briefly on a section of the Joint Powers laws that says that an action to determine the validity of the respective rights and obligations of Joint Powers Authorities, and parties with whom the Joint Powers Authority may contract may be brought pursuant to a validation action. She noted that validation actions have a 60-day statute of limitations by which you have to file an action to validate or invalidate that action, or you potentially waive it, and that she is not saying unequivocally that this is one of those types of actions, but is informing the Board it may be. She recommends it be discussed by the

Board because there needs to be a plan in the event of the stalemate that could potentially happen.

Ms. Ochoa stated she had looked into the validity of the action that was taken by PC 2 Members, but to do a deep dive, she would like the Board's feedback as to whether or not she should pursue the matter further. An open discussion ensued.

Public speaker Mr. Roger Butow of Clean Water Now (CLN) commented on the agenda item regarding regional solutions for recycling water.

There was consensus of the Board of Directors for Ms. Ochoa to do a deep dive of looking into the matters of the Joint Powers Agreement validation actions.

3. Update on Irvine Ranch Water District (IRWD) transfer of Capacities to El Toro Water District (ETWD) [PC-8, PC 2-SO, PC 21, and PC 24]

Director Reinhart updated the SOCWA Board of Directors on the status of IRWD transferring their capacities to EL Toro Water District. He stated in September of 2022, IRWD circulated an agreement notifying the Member Agencies of El Toro Water District assuming IRWD's capacities. He stated IRWD will continue to discharge effluent and brine into the SOCWA facilities not as a Member Agency, but through a contract with the El Toro Water District. Director Reinhart noted that IRWD will continue paying their share of all the costs, including OPEB, but it will be done through El Toro. He stated IRWD is seeking consent of the agreement from PC 21 and PC 24 in the coming days and will have a fully executed agreement early next year. He noted the notice to officially exit SOCWA goes into effect on June 30, 2023.

He noted shortly following will be the notice to exit SOCWA shortly noting IRWD's official exit on June 30, 2023. An open discussion ensued.

Ms. Burnett, General Manager, stated there was some unclearness in the agreement on the General Fund costs for the IRWD and Trabuco proposals.

Director Reinhart stated the General Fund cost impacts are estimated to be approximately \$5,000.00 a year.

Director Collings commented that the cost is based on the current years' budget because there is no Admin Budget for the JPA in the General Fund budget, and it may come up in the coming year.

Director Reinhart stated IRWD is giving up a Board seat, which would give up any right to question any of those costs moving forward. The exchange is that the cost for a Board seat, with not having the ability to comment at all on what costs, that might be passed on through other means.

Ms. Burnett stated the General Fund costs will be allocated among the remaining SOCWA Member Agencies based on the approved formula that is a portion of the PC Agencies.

Director Reinhart responded that IRWD is estimating the costs to be around \$5,000.00 annually.

Ms. Burnett stated although it's not much, the issue becomes: can the PC Members agree for the SOCWA Board to a redistribution of General Funds? An issue that implicates the whole of SOCWA.

This was an information item; no action was taken.

## 5. CONSENT CALENDAR

Director Ferons pulled agenda items 5.F., 5.G., and 5.H. for clarification.

### ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Goldman to approve the remainder of the Consent Calendar as submitted.

(5.A. – 5.E., and 5.I – 5.L.)

- A. 1. Minutes of Board of Directors Meeting October 6, 2022
- 2. Minutes of Board of Directors Meeting Closed Session October 25, 2022
- B. Minutes of Project Committee 2 Meeting October 25, 2022
- C. 1. Minutes of Engineering Committee Meeting August 11, 2022
- 2. Minutes of Engineering Committee Meeting September 8, 2022
- 3. Minutes of Engineering Committee Meeting October 13, 2022
- D. Minutes of Project Committee 15 Meeting November 3, 2022
- E. Minutes of Finance Committee Meeting October 18, 2022
- I. Financial Reports for October 2022
- J. Operations Monthly Reports (October 2022)
- K. Capital Improvement Program Status Report (November 2022)
- L. Capital Improvement Construction Projects Progress and Change Order Report (November) [Project Committees 2, 15, & 17]

Motion carried:	Aye 9, Nay 0, Abstained 0, Absent 0
	Director Dunbar Aye
	Director Freshley Aye
	Director Dopudja Aye
	Director Collings Aye
	Director Reinhart Aye
	Director Shissler Aye
	Director Ferons Aye
	Director Goldman Aye
	Director Rebensdorf Aye

Director Ferons noted for the record that the Finance Committee did review and recommend that the Board receive and file and approve the Audit, the Annual Comprehensive Financial Report, and the Use Audit. He stated the Finance Committee directed staff to review the updated Supplemental Financial Reports with the Financial Officers due to the reports not being ready in time for the Finance Committee meeting. He requested an update on the discussion with the Financial Officers.

Ms. Carey reported she had received a response from Drew Atwater of Moulton Niguel. She stated he did not have any issues with the Supplemental Financial Statements but did have comments on the Management Discussion and Analysis (MDNA). She noted the only small

change that was made was a \$200 difference between the receivable number in the MDNA and was on the Supplemental Financial Statements. All other comments were responded to respectively.

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Freshley to approve Consent Calendar agenda items 5.F. 5.G., and 5.H. as submitted.

- F. Annual Comprehensive Financial Report (ACFR) for Fiscal Years ended June 30, 2022, and 2021
- G. Final Use Audit, FY 2021-22 Budget vs. Actual
- H. Fiscal Year 2021-22 Updated Supplemental Financial Report

Motion carried:	Aye 9, Nay 0, Abstained 0, Absent 0
	Director Dunbar Aye
	Director Freshley Aye
	Director Dopudja Aye
	Director Collings Aye
	Director Reinhart Aye
	Director Shissler Aye
	Director Ferons Aye
	Director Goldman Aye
	Director Rebensdorf Aye

6. GENERAL MANAGER'S REPORTS

- A. Contract Extension Award to Athens Services for Grit Hauling and Disposal Services [Project Committees 2, 15, and 17]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Shissler to award a 1-year contract extension to Athens Services for Grit Hauling and Disposal Services at the rates, plus taxes and surcharges specified in the staff report for single bin deliveries that are determined when services are rendered.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 0
PC 15, 17	Director Dunbar Aye
PC 17	Director Freshley Aye
PC 2, 15, 17	Director Collings Aye
PC 15, 17	Director Shissler Aye
PC 2	Director Ferons Aye
PC 2, 15, 17	Director Goldman Aye

- B. Contract Extension Award to Integrated Municipal Systems, LLC for Scrubber Maintenance Services [Project Committees 2, 15, and 17]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Goldman to award a 1-year contract extension to Integrated Municipal Systems, LLC. for scrubber maintenance services at the rates, plus applicable taxes specified in the staff report.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 0
PC 15, 17	Director Dunbar Aye
PC 17	Director Freshley Aye
PC 2, 15, 17	Director Collings Aye
PC 15, 17	Director Shissler Aye
PC 2	Director Ferons Aye
PC 2, 15, 17	Director Goldman Aye

C. State Lands Commission ACOO & SJCOO [Project Committees 5, and 24]

Ms. Burnett reported that Ms. Amber Baylor, Director of Environmental Compliance, is working on getting the leases renewed which are included in the agenda packet. Staff is recommending the Board to authorize the General Manager to complete and execute the leases that are needed for the outfalls. She stated Counsel has reviewed the lease and has cleared up any outstanding questions. She noted there are some conditions in the lease regarding some areas of ballast support. There's a 20-foot pipeline in one area and a 30-foot pipeline in another that have eroded based on the inspection report that needs to be replaced in two locations on each of the Outfalls. Ms. Burnett stated SOCWA's commitment to complete the repairs within three years. The cost for repairs is currently unknown but will be substantially costly. The cost to begin the analysis for what work needs to be done will be included in the Capital work for the upcoming budget year. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Dunbar to 1) direct staff to include in budgets for the FY2023/24-FY2025/26 funding to comply with the SLC lease condition for implementation and maintenance recommendations as described in the 2022 Final Ocean Outfall External Inspection and Condition Survey of the SJCOO/ACOO; and 2) authorize the General Manager to complete lease negotiations and execute the SLC leases for ACOO & SJCOO.

Motion carried:	Aye 8, Nay 0, Abstained 0, Absent 0
PC 24	Director Dunbar Aye
PC 24	Director Freshley Aye
PC 5, 24	Director Collings Aye
PC 24	Director Reinhart Aye
PC 24	Director Shissler Aye
PC 5	Director Ferons Aye
PC 5, 24	Director Goldman Aye
PC 5	Director Rebensdorf Aye

D. Santa Margarita Water District (SMWD) / Moulton Niguel Water District (MNWD) Status Update on Facility Operations Proposals

Director Collings stated this item was discussed extensively under Agenda Item 4.2. and that more information will be provided in January.

This was an information item; no action was taken.

E. General Counsel's Updates (verbal reports)

- Joint Powers Agreement (JPA) Revision Process (Attachments)

Ms. Ochoa stated the most current version of the revised Joint Powers Agreement (JPA) is attached to the agenda which is a light editing just to remove San Juan Capistrano from the



proposed revision. She noted the memo that was circulated in 2019 was recirculated two months ago that identified five targeted fixes that had been proposed by Procopio at that time.

She stated there was no response or feedback to the proposed fixes, but in response to Director Goldman's queries about reigniting the JPA agreement revision process, she stated in December of last year she was instructed to hold off on the proposed revisions until after the facilitator had an opportunity to meet with the Member Agencies. She asked if it was the desire of the Board to have Procopio begin discussing the proposed revisions again with the general counsel for the respective Member Agencies or continue to hold. An open discussion ensued.

Director Goldman commented that in light of earlier discussion, it's worth Ms. Ochoa proceeding with doing a deeper dive into what happens with PC 2 at the end of June before making a decision. He stated depending on what happens when the PC 2 Agreement expires, if there is clear identification of what happens after that, then depending on the answer it is best to revisit in January. An open discussion ensued.

This was an information item; no action was taken.

- Update on open items

Ms. Ochoa updated the Board on open items stating she had received a proposal withdrawal agreement from Trabuco Canyon Water District (TCWD) which was included in the agenda packet. She suggested the Board members review the document and circulate it to their respective counsels for comments and feedback. She noted that the agreement will need to be approved by the Member Agencies.

Ms. Burnett requested that while the members are reviewing and preparing to provide comments on the Trabuco withdrawal proposal in January, that they would also consider providing comments and feedback on concerns and or suggestions on the language or critical areas of the JPA to continue moving the document forward.

This was an information item; no action was taken.

#### F. General Manager's Status Report

Ms. Burnett reported on adding the City of San Clemente Land Outfall (PC 10) to the audit as part of SOCWA's assets. She stated there was a historical record indicating the intent for the asset to return to the City of San Clemente, but it was never completed. An open discussion ensued.

Director Rebensdorf commented that the city is still searching for the agreement. He noted it had been two decades but recalls reading the agreement because of having to do some repairs to the Land Outfall due to corrosion issues and some failures. Director Rebensdorf stated he also recalled it saying that SOCWA owns the asset and was the only entity attached to the agreement. He noted that San Clemente is responsible for maintenance and operation of the Land Outfall.

Ms. Burnett requested permission from the Board to allow staff to continue working with the City of San Clemente to propose a transfer of the asset since they've historically been managing and paying for the Land Outfall.

There was consensus of the Board of Directors directing SOCWA staff to complete the necessary process of Quitclaiming the San Clemente Land Outfall from the SOCWA assets back to the City of San Clemente.

Ms. Burnett also reported that the SOCWA staff has been working closely with the Moulton staff in transitioning the operation of the AWT over to Moulton. She thanked Director Ferons for his suggestion to develop a guidance document that is working well with the transition. Ms. Burnett also noted the agreement was completed between SOCWA and Moulton giving them the ability to use the area in the AWT for future improvements to the recycled water system.

This was an information item; no action was taken.

#### G. Upcoming Meetings Schedule

The upcoming meeting schedule was reported as noted below:

- December 8, 2022 – Board of Directors Special Meeting
- December 9, 2022 – Board of Directors Special Meeting – *Closed Session*
- December 15, 2022 – Engineering Committee Meeting – *Canceled*
- December 20, 2022 – Finance Committee Meeting
- December 20 or 27, 2022 – PC 2 Committee Meeting - *Tentative*
- January 5, 2023 – Board of Directors Regular Meeting
- January 12, 2023 – Engineering Committee Meeting
- January 17, 2023 – Finance Committee Meeting – *Canceled*
- Board of Directors Comments to Meeting Schedule for 2023 Calendar Year (see pg. 318)

This was an information item; no action was taken.

The Board of Directors convened to Closed Session at 10:43 a.m.  
The Board of Directors reconvened to Open Session at 11: 25 a.m.

#### 7. CLOSED SESSION

- A Closed Session conference with labor negotiators was held pursuant to Government Code section § 54957.6.

Counsel stated there were no reportable actions.

#### 8. OTHER MATTERS

None.

#### ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 11:25 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors on December 8, 2022 and approved by the Board of Directors of the South Orange County Wastewater Authority.

---

Danita Hirsh, Assistant Board Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**MINUTES OF SPECIAL MEETING  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

**Project Committee No. 2  
Meeting**

**January 10, 2023  
2:30 p.m.**

**DRAFT**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee 2 was held on January 10, 2023 at 2:30 p.m. via teleconference at 34156 Del Obispo Street, Dana Point, California. The following members of the Project Committee No. 2 were present:

MATT COLLINGS	Moulton Niguel Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
DAN FERONS	Santa Margarita Water District	Director

**Staff Participation:**

JIM BURROR	Director of Operations
DAVID BARANOWSKI	Director of Engineering
AMBER BAYLOR	Director of Environmental Compliance
RONI YOUNG GRANT	Associate Engineer
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
MARY CAREY	Controller
KONSTANTIN SHILKOV	Senior Accountant
NAYDN KIM	Accounting
DANITA HIRSH	Executive Assistant

**Also Participating:**

ADRIANA OCHOA	Procopio Law
RICK SHINTAKU	South Coast Water District
MARC SERNA	South Coast Water District
DON BUNTS	Santa Margarita Water District
DAVE REBENS DORF	City of San Clemente
DOUG REINHART	Irvine Ranch Water District
OSMAN MUFTI	Sloan Sakai Yeung & Wong LLP
SHERRY WANNINGER	Moulton Niguel Water District
PAUL BENDER	Santa Margarita Water District
FRANK URY	Santa Margarita Water District
BILL MOORHEAD	Moulton Niguel Water District
KEVIN DAY	City of Laguna Beach
SAUNDRA JACOBS	Santa Margarita Water District
KATHRYN FRESHLEY	El Toro Water District
MIKE GASKINS	El Toro Water District
PAMELA ARENDS-KING	South Coast Water District
STEPHEN DOPUDJA	Trabuco Canyon Water District
ROGER BUTOW	Clean Water Now (CWN)
KEVIN DAY	Moulton Niguel Water District

1. Call Meeting to Order

Chairman Collings called the meeting to order at 2:30 p.m.

2. Public Comments

None.

3. PC 2 Matter:

This meeting is related to (1) the Action of a majority of PC 2 Agency Representatives to vote to end SOCWA's Operation of the J.B. Latham Plant (action taken on November 22, 2022 PC 2 Meeting); and (2) this meeting is related to the subsequent approval by the Board of Directors of SOCWA (action taken at the January 5, 2023 SOCWA Meeting) to Authorize Counsel to Prepare a Tolling Agreement whereby the Statute of Limitations re: Validation or other legal actions should be tolled for a period of 90 days to allow for the discussion of the matter between SOCWA and its member agencies including PC 2 representatives; and (3) due to the request of South Coast Water District that Project Committee 2 also vote separately in agreement to the tolling of the statute of limitations related to challenges to the PC Action, therefore, PC 2 is meeting to consider the proposal for a tolling agreement.

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Collings to authorize the Counsel to prepare a Tolling Agreement whereby the Statute of Limitations re: Validation or other legal actions should be tolled for a period of 90 days to allow for the discussion of the matter between SOCWA and its member agencies, including PC 2 representatives, and agree to the tolling of the statute of limitations related to challenges to the PC Action *attached herein*.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 0
	Director Ferons                      Aye
	Director Collings                      Aye
	Director Goldman                      Aye

Adjournment

There being no further business, Chairman Collings adjourned the meeting at 2:37 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 2 of January 10, 2023, and approved by the Project Committee No. 2, and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

---

Danita Hirsh, Assistant Board Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

## **TOLLING AGREEMENT**

This Tolling Agreement ("Agreement") is made by and between the South Orange County Wastewater Authority, a Joint Powers Authority, ("SOCWA"), including SOCWA's Project Committee No. 2 ("PC2"), and South Coast Water District, a County Water District organized and operating under Division 12 of the California Water Code ("SCWD"). The parties are sometimes referred to herein individually as a "Party" and collectively as "Parties".

### **RECITALS**

A. SOCWA currently operates the J.B. Latham Regional Wastewater Treatment Plant ("Latham Plant") pursuant to a Joint Powers Agreement ("JPA") and PC2 Agreement, as amended.

B. The current member agencies of PC2 are SCWD, Moulton Niguel Water District ("MNWD"), and Santa Margarita Water District ("SMWD") (collectively the "PC2 Agencies").

C. During a meeting of the PC2 Agencies on November 22, 2022, the PC2 Agencies voted by a vote of 2-1, with SCWD voting 'no', to remove SOCWA as the operator of the Latham Plant pursuant to Section 9.1 of the JPA, effective upon expiration of the PC2 Agreement on June 28, 2023, without identifying a new operator ("PC2 Vote").

D. SCWD opines that the PC2 Vote is invalid and subject to challenge under, among other authorities, California's validation statutes at Code of Civil Procedure §§ 860 *et seq.* ("Validation Statutes"). MNWD's representative on the SOCWA Board of Directors and SMWD's representative on the SOCWA Board of Directors opine that the PC2 Vote is valid.

E. Any action brought pursuant to the Validation Statutes must be filed within 60 days of the action being challenged. Accordingly, if the Validation Statutes apply, then the deadline for SCWD to file a reverse validation action under the Validation Statutes is January 23, 2023. The Parties desire to toll the 60-day statute of limitation as to SCWD only and engage in good faith discussions to determine the operator of the Latham Plant.

F. During a meeting of the SOCWA Board of Directors on January 5, 2023, the SOCWA Board voted 8-0, with one abstention by MNWD, in favor of tolling the 60 day statute of limitations prescribed by the Validation Statutes. On January 10, 2023, the Participating Directors of PC2 held a PC2 committee meeting and voted unanimously in favor of entering into this Agreement.

G. This Agreement to toll the 60-day statute of limitation is made in accordance with *Wolstoncroft v. Cty. of Yolo* (2021) 68 Cal. App. 5th 327.

### **AGREEMENT**

NOW THEREFORE, in consideration of the mutual promises, covenants, and terms and conditions herein, the Parties hereby agree as follows:

1. With respect to any potential action that could be brought to challenge the PC2 Vote under the Validation Statutes, the Parties agree to toll the statute of limitation as to SCWD only as set forth in the Validation Statutes for 90 days. The new deadline by which SCWD may file a reverse validation action under Code of Civil Procedure § 863 is now Monday, April 24, 2023.

2. This Agreement does not constitute an admission or acknowledgement of any fact, conclusion of law, or liability by any Party to this Agreement.

### **GENERAL PROVISIONS**

3. **Recitals.** The above Recitals are true and correct.

4. **Modification.** This Agreement may not be modified except in writing signed by all Parties. The Parties acknowledge that this Agreement may be extended for such period of time as the Parties agree to in writing.

5. **Waiver.** No provision of this Agreement may be waived unless the waiver is made in writing signed by the Party making the waiver. Waiver of any one provision herein shall not be deemed to be a waiver of any other provision herein.

6. **Integration.** This Agreement contains the entire agreement between the Parties, and no prior statement, promise, or inducement made by any Party to this Agreement that is not set forth in this Agreement shall be valid or binding, nor shall it be used in construing the terms of this Agreement as set forth herein.

7. **Effective Date.** This Agreement is effective on January 10, 2023.

8. **Electronic Signatures and Counterparts.** Any Party may execute this Agreement using an "electronic signature," as that term is defined in California Civil Code Section 1633.2, or a "digital signature," as defined by California Government Code Section 16.5. An electronic or digital signature will have full legal effect and enforceability. This Agreement may be signed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same document.

9. **Construction.** This Agreement is deemed to have been drafted jointly by the Parties. Any uncertainty or ambiguity shall not be construed for or against any other Party based on attribution of drafting to any Party.

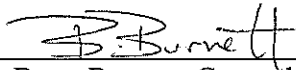
10. **Severability.** Should any provision of this Agreement be declared or be determined by any Court to be illegal or invalid, the validity of the remaining parts, terms, or provisions shall not be affected thereby, and said illegal or invalid part, term or provision, shall be deemed not to be a part of this Agreement.

11. **Signing Authority.** The undersigned representative of each of the Parties certifies that they are fully authorized to enter into this Agreement and to legally bind such Party to this document.

12. **Successors and Assigns.** This Agreement shall be binding upon the Parties, and their respective successors and assigns.

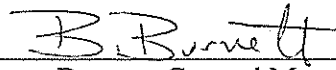
13. **Governing Law.** This Agreement shall be construed and interpreted in accordance with the laws of the State of California.

SOUTH ORANGE COUNTY  
WASTEWATER AUTHORITY



Betty Burnett, General Manager

SOUTH ORANGE COUNTY WATER  
AUTHORITY, ON BEHALF OF PROJECT  
COMMITTEE NUMBER 2



Betty Burnett, General Manager

SOUTH COAST WATER DISTRICT



January 11, 2023

Rick Shintaku, General Manager

# Agenda Item

## 6.C.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors  
**FROM:** Jim Burror, Acting General Manager/Director of Operations  
**SUBJECT:** December 2022 Operations Report

---

### Summary/Discussion

The following selected operational reports are provided monthly to the Board of Directors. The operational reports included are as follows:

1. Monthly Operational Report

This is a nine (9) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculations used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visits by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2. SOCWA Ocean Outfall Discharges by Agency

This data shows how much water is being discharged into the ocean each month and for the last 12 months. This data is presented for the agencies planning reuse projects to better understand the potential to expand water reuse in their service area.

3. Quarterly Report on Key Operational Expenses

A seven (7) page overview of monthly expenses for key operational expenses with estimated projections for the Fiscal Year. The key parameters that are being tracked are Electricity, Odor Control, Polymer, Biosolids, Maintenance expenses (not including SOCWA staff labor), small capital purchases, and safety.

4. Beach Ocean Monitoring Report

5. Recycled Water Report

6. Pretreatment Report

### Fiscal Impact

No change.

**Recommended Action:** Information Item; receive and file the Operational Reports.



# Monthly Operational Report

# SOCWA Operational Report December, 2022

## Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	1	1
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

## Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.5	7.5	6.3	1.0	17.2
Effluent (mgd)	2.3	6.4	6.3	2.5	17.5
Peak Flow (mgd)	6.0	18.0	12.0	10.0	46.0
Influent BOD (mg/l)	266	322	274	393	
Influent TSS (mg/l)	427	331	440	328	
Effluent BOD (mg/l)	3.9	6.9	8.8	9.5	
Effluent TSS (mg/l)	3.6	9.8	9.9	12.2	
Effluent Turbidity (NTU)	1.8	5.3	5.1	6.6	

(1) CTP Influent value does not include AWT backwash in this table.

## Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.43			0.43
Days of Operation (days)	23			
Total Flow (million gallons)	13.30			
Plant Irrigation (million gallons)	0.01		0.01	
AWT Time Online (%)	100.0			

### Wastewater Unit Definitions

mgd = million gallons per day

mg/l = milligram per liter also known as parts per million

NTU = Nephelometric Turbidity Units

# SOCWA Operational Report December, 2022 (cont'd)

## Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		809.3	0.0	809.3
Nursery Products (tons)		0.0	0.0	0.0
Prima Deshecha (tons)		0.0	0.0	0.0
Other: _____ (tons)		474.9	726.0	1,200.9
Total Processed (tons)		1,284.2	726.0	2,010.2

## Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	95	357	328	780
Corrective Maintenance	21	72	52	145

## Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	20	4	24
Residents	0	0	0	0
Others	6	3	5	14
Tours #/Visitors	0	0	0	0

## Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	7.6	NA	58.6	66.1

## Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	NA	NA	0.00
Utility Power Purchase (kWh)	205,877	20,909	152,181	378,967
Cogen Power (kWh)		601,132	237,303	838,435
Natural Gas (Dth)	39	2,087	1,086	3,212
Digester Gas to Engine (scfm)		8,863,956	2,373,396	11,237,352
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		360,893	2,201,233	2,562,126
Digester Gas Power Savings		\$78,437		

NA = Not Available at the time this report was generated.

### Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

# SOCWA Operational Report December, 2022 (cont'd)

## Agency Wastewater Flows to SOCWA by Facility (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.37	54.17%				1.37
EBSD	0.05	1.99%				0.05
SCWD	1.11	43.84%				2.78
MNWD	0.00	0.00%	7.50	1.40	19.22%	8.90
CSJC				2.15	29.55%	2.15
SMWD				2.06	28.28%	2.06
Total	2.52	100.00%	7.50	7.28	100.00%	17.31

## Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.37	8.31%	1.37	
EBSD				0.05	0.31%	0.05	
SCWD	1.85	16.97%		0.81	4.92%	2.66	Includes Desalters
MNWD	1.61	14.79%		6.43	39.16%	8.05	
ETWD				3.10	18.86%	3.10	Direct Outfall Only
CSJC	2.20	20.20%				2.20	Includes Desalter
SMWD	2.06	18.92%				2.06	Includes Chiquita
CSC	3.18	29.11%				3.18	Direct Outfall Only
IRWD				4.67	28.44%	4.67	Direct Outfall Only
Total	10.91	100.00%	7.02	16.43	100.00%	27.34	

# SOCWA Operational Report December, 2022 (cont'd)

## FY Flow/Solids Summary-Billing

### Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	2.21	26.25%	2.15	29.55%	2.13	28.98%
MNWD	3.00	23.08%	1.40	16.63%	1.40	19.22%	1.40	19.07%
SCWD	3.75	28.85%	1.61	19.12%	1.67	22.95%	1.62	22.10%
SMWD	2.25	17.31%	3.20	38.00%	2.06	28.28%	2.19	29.85%
Total	13.00	100.00%	8.42	100.00%	7.28	100.00%	7.34	100.00%

### Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d) (2)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	5,884	22.54%	6,156	28.08%	6,434	23.52%
MNWD	8,340	21.62%	6,169	23.63%	4,710	21.49%	6,257	22.87%
SCWD	7,715	20.00%	5,584	21.39%	4,125	18.82%	5,855	21.40%
SMWD	10,946	28.38%	8,473	32.45%	6,931	31.62%	8,814	32.22%
Total	38,573	100.00%	26,110	100.00%	21,922	100.00%	27,360	100.00%

### Project Committee No. 5 - San Juan Creek Ocean Outfall (SJCOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSC	16.63 %	13.30	16.63%	3.18	29.11%	2.28	21.68%
CSJC	11.08 %	8.86	11.08%	2.20	20.20%	2.44	23.17%
MNWD(3)	15.51 %	12.41	15.51%	1.61	14.79%	1.80	17.11%
SCWD	12.46 %	9.97	12.46%	1.85	16.97%	1.80	17.09%
SMWD	44.32 %	35.46	44.33%	2.07	18.92%	2.20	20.96%
Total	100.00 %	80.00	100.00%	10.91	100.00%	10.51	100.00%

(1) Influent billing meter summary:

- CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
- MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

(2) The 36-month average is the average of the past 36 months. The Use Audit is based on the last 3 Fiscal Years versus the average of the past 36 months.

(3) All monthly flow data for 3A is reported as part of MNWD's flow to the ocean outfall.

# SOCWA Operational Report December, 2022 (cont'd)

## FY Flow/Solids Summary-Billing (cont'd)

### Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.50	55.22%	1.37	54.17%	1.41	52.61%
EBSD	0.20	2.99%	0.06	2.21%	0.05	1.99%	0.06	2.23%
SCWD	2.00	29.85%	1.15	42.56%	1.11	43.84%	1.21	45.16%
MNWD	1.96	29.25%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Total	6.70	100.00%	2.71	100.00%	2.52	100.00%	2.68	100.00%

### Project Committee No. 17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.01	0.0942%	0.00	0.01	0.01	0.1760%	0.01	0.1795%
EBSD	0.00	0.0001%	0.00	0.00	0.00	0.0065%	0.00	0.0076%
SCWD	0.00	0.0562%	0.00	0.01	0.01	0.1425%	0.01	0.1540%
ETWD	0.02	0.2055%	0.00	0.02	0.02	0.2602%	0.02	0.2262%
MNWD	7.57	99.6439%	7.50	0.07	7.57	99.4149%	7.27	99.4327%
Total	7.60	100.0000%	7.50	0.11	7.61	100.0000%	7.31	100.0000%

(1) Month total does not double count MNWD centrate. It is included in the Monthly Plant Influent too.

# SOCWA Operational Report December, 2022 (cont'd)

## FY Flow/Solids Summary (cont'd)

### Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,406	11.89%	127,017	12.05%	133,352	12.26%
EBSD	295	0.59%	177	0.48%	4,662	0.44%	5,653	0.52%
SCWD	4,480	8.96%	3,392	9.16%	102,794	9.75%	114,530	10.53%
ETWD	10,200	20.41%	5,305	14.32%	187,732	17.80%	167,013	15.35%
MNWD	29,395	58.82%	23,769	64.16%	632,229	59.96%	667,474	61.35%
Total	49,975	100.00%	37,049	100.00%	1,054,434	100.00%	1,088,023	100.00%

### Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.00%	5.50	11.00%	1.37	8.31%	1.41	16.23%
EBSD	0.78%	0.39	0.78%	0.05	0.31%	0.06	0.69%
ETWD	16.30%	8.15	16.30%	3.10	18.86%	2.02	23.27%
IRWD	15.76%	7.88	15.76%	4.67	28.44%	2.08	23.97%
MNWD	43.85%	21.92	43.85%	6.44	39.16%	2.58	29.76%
SCWD	12.31%	6.16	12.31%	0.81	4.92%	0.53	6.08%
Total	100.00%	50.00	100.00%	16.43	100.00%	8.68	100.00%

## SOCWA Operational Report December, 2022 (cont'd)

### *Select Critical Equipment Repairs*

#### JBL - PC2

Troubleshoot inoperable 4-side primary sludge valves.  
Worked with the manufacturer of a leaking bleach tank for warranty repairs.  
Worked on reconstructing the corroded and leaking 4-side process water piping system.  
Replaced a failed process water valve near the DAFT Polymer Tank.  
Troubleshoot malfunctioning 9-side sump pump.  
Rebuilt failing Digester Nos. 1 and 2 Recirculation Pumps.  
Replaced corroded and failing 4-side influent channel covers.  
Rebuilt failing 9-side Headworks screenings conveyor system.  
Troubleshoot failed 9-side Compactor; parts are on order to replace failed screw and shaft.  
Replaced corroded and failing RAS channel cover for Secondary Basin #8.

#### CTP - PC15

Worked with roofing contractor on warranty roof repairs for Building #6.  
Repaired a broken DAFT #2 flight.  
Replaced the failed P-trap and drain on the Odor Scrubber.  
Relocated the SCWD ferric dosing location to test if the iron in ferric chloride was causing influent metering errors.  
Replaced failed process water line for the East Aeration Tanks.

#### RTP - PC17

Troubleshoot WAS Pump #1, which was making loud noises.  
Troubleshoot inoperable Primary Sedimentation Scum Pump #1.  
Replaced failed ferric tank sight glass with magnetic level sensor.  
Removed a fallen tree that blocked the entrance road.  
Troubleshoot the West RAS Bleach Pumps that were not pumping.  
Replaced failed carbon media for the Cogen gas cleaning system.  
Replaced failed gearbox for Primary Nos. 4 and 6 collectors.  
Replaced failed Equalized Sludge Pumps #6.  
Troubleshoot Centrifuge #1, which had a polymer system failure.  
Troubleshoot DAFT #2, which had a blockage from the storm flows.

#### Support Services - ALL PC'S

Replaced failed Cogen Jacket Water Recirculation Pump at JBL.  
Repaired leaking Cogen gas conditioning skid chiller at JBL.  
Replaced failed 9-side lighting panel that was damaged by the rain at JBL.  
Troubleshoot the failing 9-side Compactor and Conveyor at JBL.  
Responded to several power outages at JBL.  
Troubleshoot a failing TWAS flow meter with Sparling and Olsson Construction at JBL.  
Replaced failed Building #40 Roof Exhaust Fan #4 at JBL.  
Replaced failed lighting system in Truck Bay #2 at JBL.



## SOCWA Operational Report December, 2022 (cont'd)

### *Select Critical Equipment Repairs (cont'd)*

#### Support Services - ALL PC'S (cont'd)

Troubleshoot Solids Scrubber panel lost power and overload issues at JBL.

Troubleshoot Primary Sludge Pumps Nos. 3 and 4 at JBL starters at JBL.

Replaced failed lighting system in Building #13 at CTP.

Recalibrated all the aeration tank air control meters and reprogrammed the aeration control system at CTP.

Troubleshoot failed DAFT drain pumps at CTP.

Troubleshoot tripping Ferric Chloride Pump #1 at CTP.

Troubleshoot failed AWT TDS meter at CTP.

Troubleshoot failed NOx sensor on the Cogen Engine at RTP.

Troubleshoot an SCR sensor error on the Cogen Engine at RTP.

Repaired an oil leak on the Cogen Engine at RTP.

Repaired a water leak on the heat loop at RTP.

Replaced failed air-vac on the process water system at RTP.

Reprogrammed the new polymer system and added alarms to minimize mixer and pump overflows.

Supported the installation of the new emergency public announcement system.

Installed new instrumentation wiring to allow for the AWT system to be operated by MNWD.

Troubleshoot failed effluent turbidity sensor.

Items with a (\*) have been identified as preventable repairs.

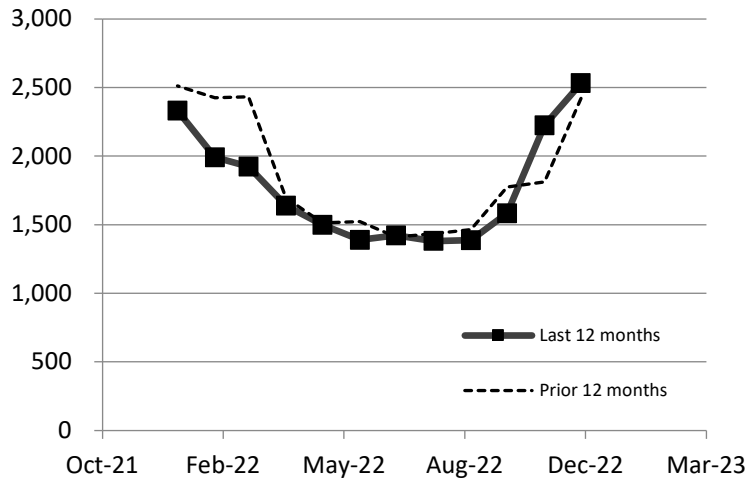
# SOCWA Ocean Outfall Discharges by Agency

## SOCWA Operational Report December, 2022 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.37	8.31%	1.37
EBSD			0.05	0.31%	0.05
SCWD	1.85	16.97%	0.81	4.92%	2.66
MNWD	1.61	14.79%	6.43	39.16%	8.05
ETWD			3.10	18.86%	3.10
CSJC					2.20
SMWD					2.06
CSC					3.18
IRWD			4.67	28.44%	4.67
Total			10.91	100.00%	16.43
	or Acre-Feet per year equivalent				30,626

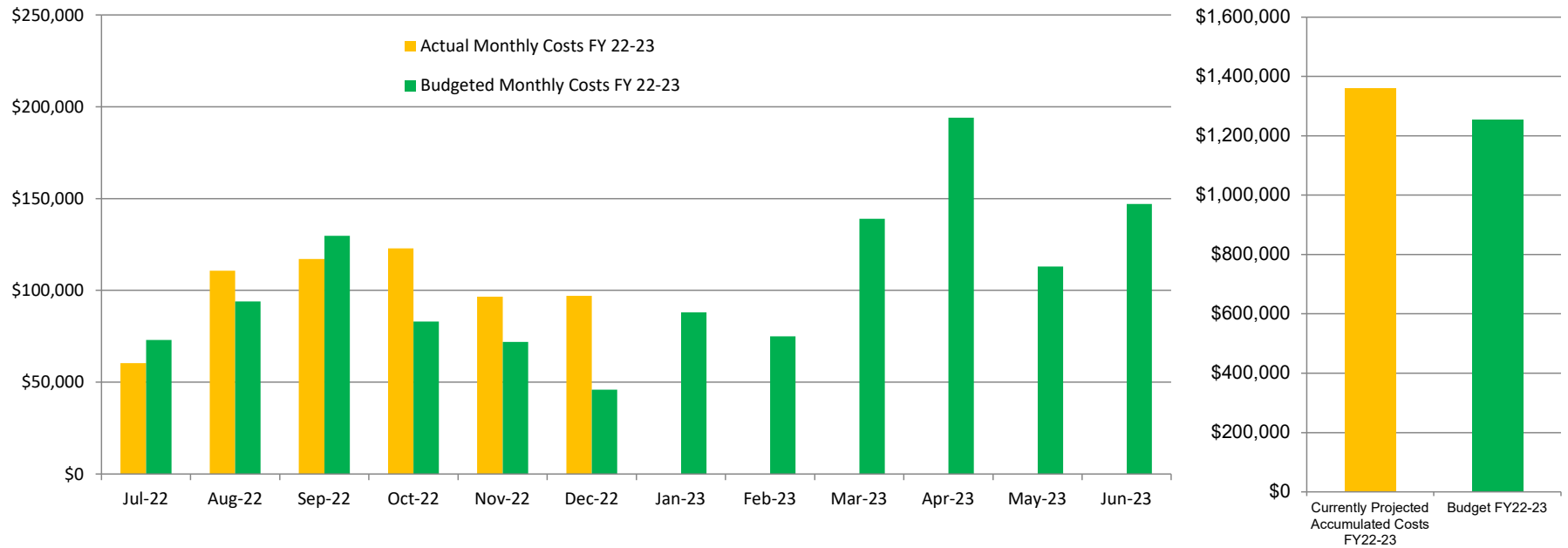
### 12-Month Running Total Discharge to Ocean Outfalls (AF)

Dec-22	2,532
Nov-22	2,224
Oct-22	1,582
Sep-22	1,386
Aug-22	1,382
Jul-22	1,422
Jun-22	1,389
May-22	1,498
Apr-22	1,638
Mar-22	1,924
Feb-22	1,991
Jan-22	2,333
Total	21,301



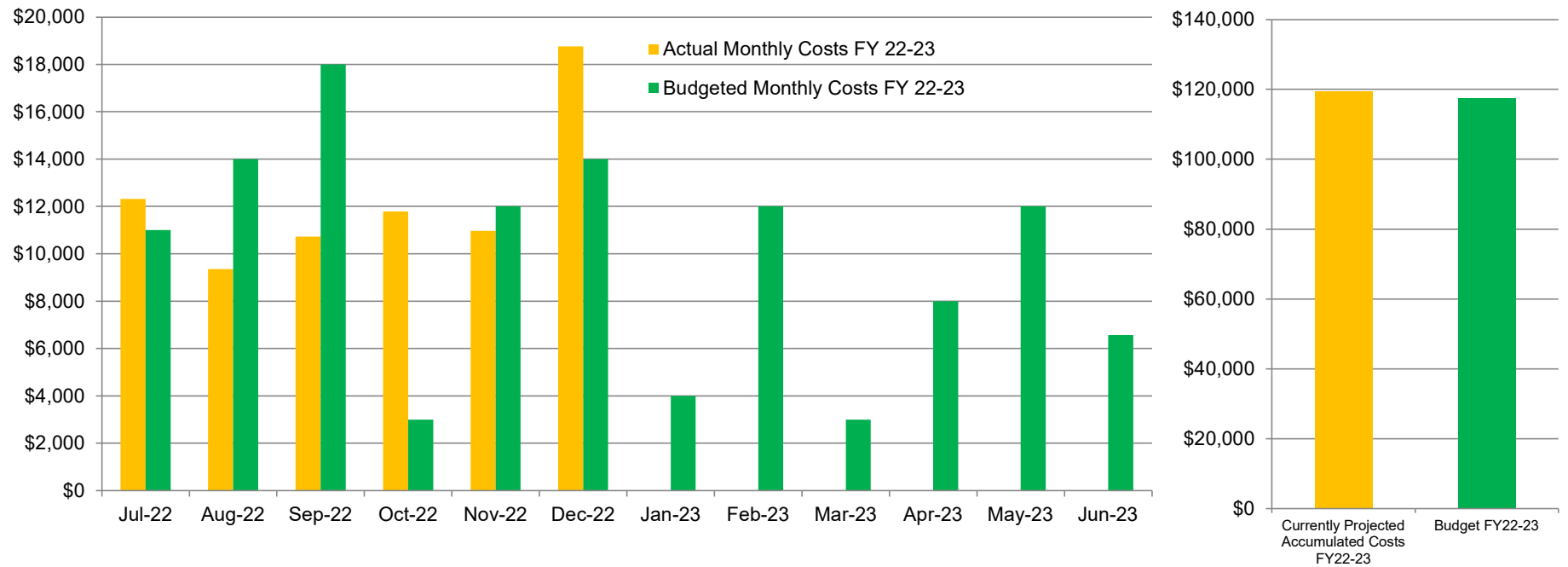
# Quarterly Report on Key Operational Expenses

# Electricity (5002) Costs



	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Currently Projected Accumulated Costs FY22-23	
Actual Monthly Costs FY 22-23	\$60,412	\$110,730	\$117,160	\$122,848	\$96,565	\$97,050							Budget FY22-23	\$1,253,828
Budgeted Monthly Costs FY 22-23	\$73,000	\$94,000	\$129,780	\$83,000	\$72,000	\$46,000	\$88,000	\$75,000	\$139,000	\$194,000	\$113,048	\$147,000	Currently Projected Under(+)/Over (-) Budget	-\$106,986

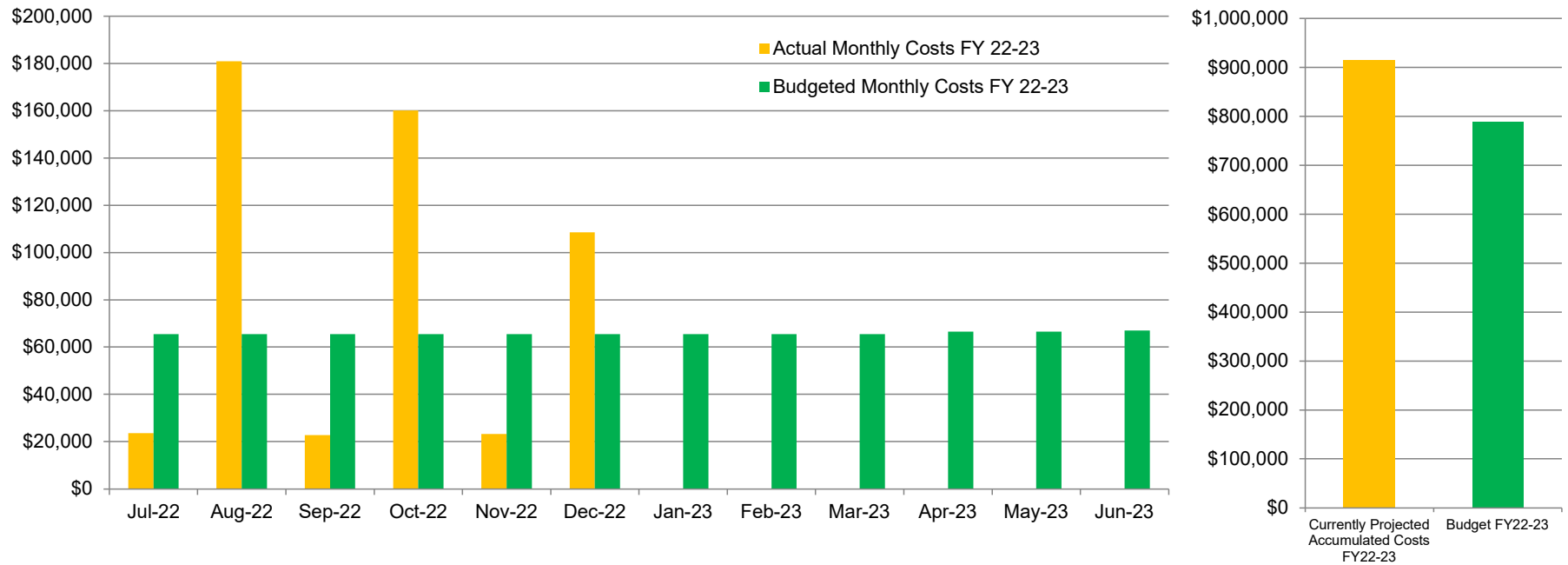
# Odor Control (5009) Costs



	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Currently Projected Accumulated Costs FY22-23	
Actual Monthly Costs FY 22-23	\$12,315	\$9,358	\$10,726	\$11,782	\$10,973	\$18,757							Budget FY22-23	\$117,572
Budgeted Monthly Costs FY 22-23	\$11,000	\$14,000	\$18,000	\$3,000	\$12,000	\$14,000	\$4,000	\$12,000	\$3,000	\$8,000	\$12,000	\$6,572	Currently Projected Under(+)/Over (-) Budget(1)	-\$1,912

(1) Actual costs are coming in higher than budgeted due to supply chain, commodity shortages and fuel increases driving experienced costs higher than anticipated.

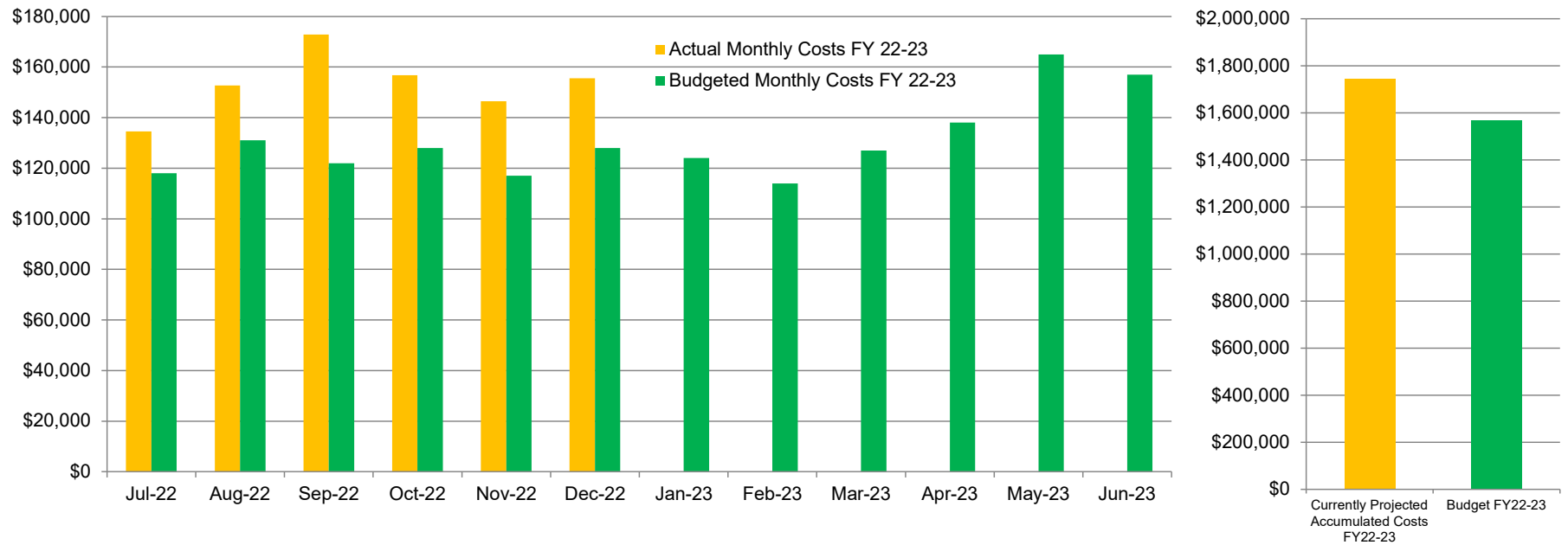
# Polymer (5007) Costs



	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Currently Projected Accumulated Costs FY22-23	
Actual Monthly Costs FY 22-23	\$23,617	\$180,928	\$22,797	\$160,034	\$23,193	\$108,516							Budget FY22-23	\$789,548
Budgeted Monthly Costs FY 22-23	\$65,500	\$65,500	\$65,500	\$65,500	\$65,500	\$65,500	\$65,500	\$65,500	\$65,500	\$66,500	\$66,500	\$67,048	Currently Projected Under(+)/Over (-) Budget(1)	-\$126,084

(1) Actual costs are coming in higher than budgeted due to supply chain, commodity shortages and fuel increases driving experienced costs higher than anticipated.

# Biosolids (5049) Costs

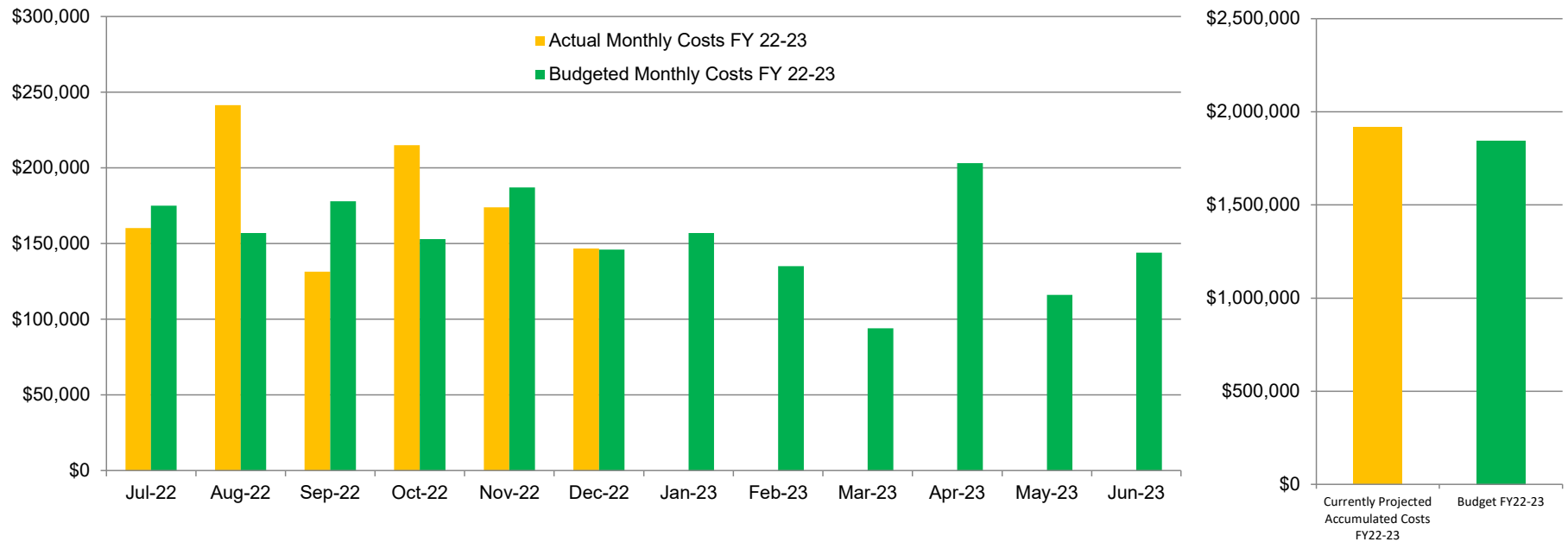


	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Currently Projected Accumulated Costs FY22-23	
Actual Monthly Costs FY 22-23	\$134,571	\$152,712	\$172,812	\$156,821	\$146,484	\$155,527							Budget FY22-23	\$1,568,996
Budgeted Monthly Costs FY 22-23	\$117,996	\$131,000	\$122,000	\$128,000	\$117,000	\$128,000	\$124,000	\$114,000	\$127,000	\$138,000	\$165,000	\$157,000	Currently Projected Under(+)/Over (-) Budget(1)	-\$174,931

(1) Actual costs are coming in higher than budgeted due to supply chain, commodity shortages and fuel increases driving experienced costs higher than anticipated.



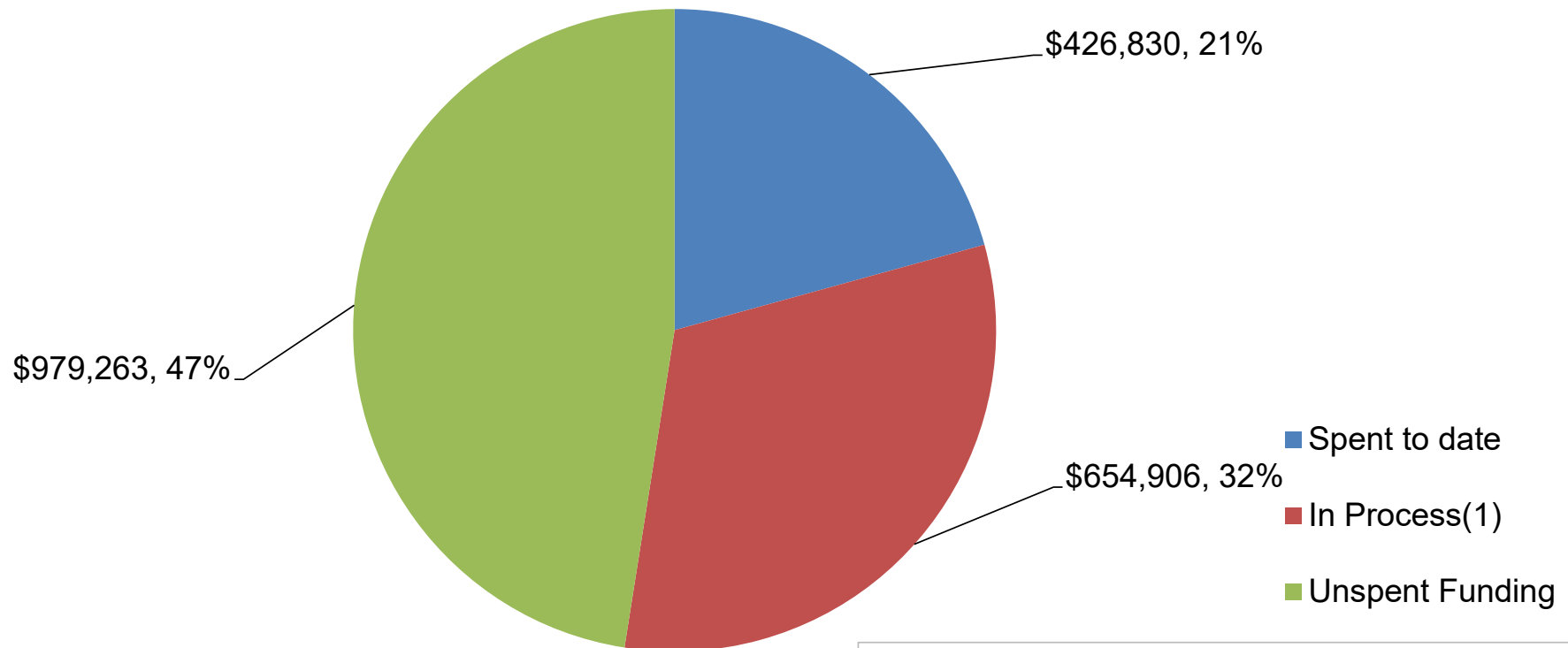
# Maintenance Repair (5056 to 5060) Costs



	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Currently Projected Accumulated Costs FY22-23	
Actual Monthly Costs FY 22-23	\$160,210	\$241,349	\$131,416	\$215,021	\$173,956	\$146,689							Budget FY22-23	\$1,845,000
Budgeted Monthly Costs FY 22-23	\$175,000	\$157,000	\$178,000	\$153,000	\$187,000	\$146,000	\$157,000	\$135,000	\$94,000	\$203,000	\$116,000	\$144,000	Currently Projected Under(+)/Over (-) Budget(1)	-\$72,640

(1) Actual costs are coming in higher than budgeted due to supply chain, commodity shortages and fuel increases driving experienced costs higher than anticipated.

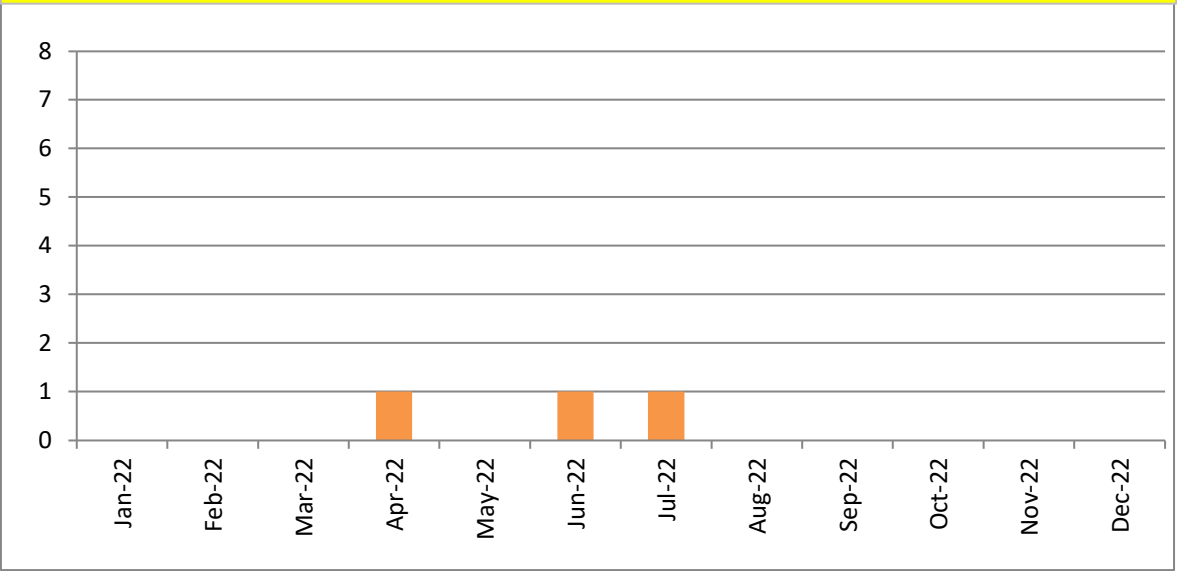
# FY22-23 Small Internal Capital Costs



(1) In Process and Unspent purchases are being delayed due to COVID-related

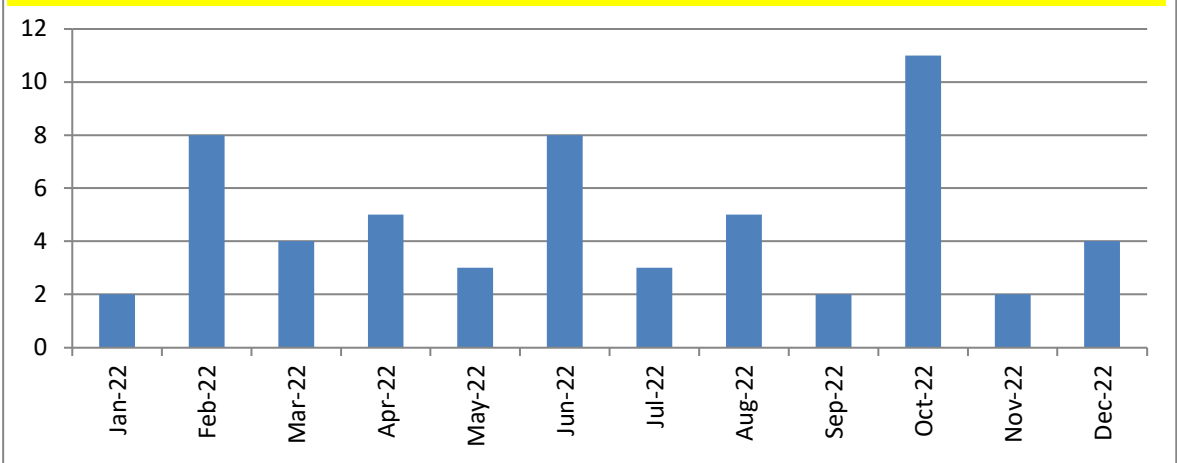
SOCWA SAFETY UPDATE - DECEMBER 2022

OSHA RECORDABLE INJURIES



	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
OSHA RECORDABLE INJURIES	0	0	0	1	0	1	1	0	0	0	0	0

NEAR MISS REPORTS



	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
NEAR MISS REPORTS	2	8	4	5	3	8	3	5	2	11	2	4

Updated: 1/11/2023

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
Dec '22 - Annual Defensive and Distracted Driver Training w/ CHP	90%
Nov '22 - Audiometric Hearing Testing, Confined Space Entry Rescue Training, and Supervisor Safety Training	95%
October '22 - Annual Respirator Fit Testing/Training and Medical Examination	100%
September '22 - CPR/First Aid/AED Training (Initial and Refresher)	90% (of all SOCWA Employees)
July '22 - Annual 8-HR HAZWOPER Refresher Training	95%
June '22 - Active Shooter/Workplace Violence Training and SPCCP Spill Training	95% (of all SOCWA Employees)
May '22 - Annual Fire Extinguisher Use Training (hands-on training)	90% (of all SOCWA Employees)
April '22 - Annual Heat Illness Training (completed remotely)	95% (of all SOCWA Employees)
Mar '22 - Annual Bloodborne Pathogen (BBP) Training, completed remotely	95% (of all SOCWA Employees)
Feb '22 - Initial Fall Protection Training, Initial Forklift Training, Silica Safety Training	100%
Oct '21 - Annual Hearing Testing, Wildfire Safety/Smoke Training, Respirator Fit Testing	100%
Sept '21 - Annual BBP Training and Lifting Safety Training (with CSRMA, remotely)	90%
Aug '21 - Confined Space Rescue Refresher and Electrical Safety in the Workplace	100%
July '21 - Annual 8-HR HAZWOPER Refresher Training & Initial CPR/First Aid/AED Training	95%
Feb '21 - Annual Fire Extinguisher Use Training / March '21 Annual Heat Illness Training	95%
Oct/Nov '20 - Forklift Training and Additional ICS Training	95%
Sept '20 - CPR/First Aid/AED Training (Refresher and Initial)	95% (of all SOCWA employees)
Feb '20 - Active Shooter/Workplace Violence Training	95%
Oct '19 - Fall Protection Training, Additional ICS Training, and Spill Training	90%
Sept '19 - Wildland Fire Training and CPR/First Aid/AED Training	90%
Aug '19 - Initial Confined Space Entry Rescue and Additional Active Shooter Training	95%
March '19 - Annual Respirator Fit Testing and PPE Use Training	95%
Feb '19 - Annual Bloodborne Pathogens Training and Additional Arc Flash Training	95%
September '18 - Silica Safety Training / October '18 - Crane Safety	100%
Aug '18 - Fire Awareness Safety for Field Personnel and Lockout/Tagout Training	100% (all SOCWA employees)
Jan '18 - Respiratory PPE Training/Fit Testing and Additional ICS Training	90%
Sept '17 - Active Shooter/Workplace Violence Training	100%
May '17 - Safety Culture Training / July/Aug '17 - Spill Response Training (hands on)	100%
Mar '17 - Fall Protection Training and CPR/First Aid/AED Training	100%
Jan '17 - Lockout/Tagout Training and Confined Space Rescue Practice/Training	100%
Oct '16 - Confined Space Awareness/Entry Rescue Training and Forklift Training	100%
May '16 - Entry Level NIMS/ICS Training and Heat Illness Training	100%
Feb '16 - Biomechanics/Ergonomics Training (CSRMA) and Bloodborne Pathogen Training	100%
Oct '15 and Jan '16 - Initial Confined Space Entry Rescue Training (3-day trainings)	100%
Sept '15 - Pre-Storm Workshop, Arc Flash Training, and Forklift Training	100%
Aug '15 - Fire Prevention for Water Utility Field Staff and Disaster Cost Recovery Training	100%
July '15 - Initiate additional NIMS/ICS Training, Attend Water and Power Resiliency Workshop	Ongoing
June '15 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%

# Beach / Ocean Monitoring Report

## ALISO CREEK OCEAN OUTFALL MONITORING REPORT

December 2022

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	FLOW MGD	Fall inches
12/01/22	3.663	11.0	6.3	<0.3	3.208	21.7	8.7	0.1	4.990	6.7	4.0	<0.1	1.577	3.0	3.0	<0.1	0.788	0.415	0.144	14.785	0.00
12/02/22	3.356	12.0	14.0	<0.3	1.850	29.3	13.0	0.1	4.27	6.6	6.0	<0.1	2.110	3.5	3.0	<0.1	0.794	0.414	0.145	12.939	0.00
12/03/22	3.186	9.7		<0.3	3.143	23.7	10.3	0.1	3.870	9.3	5.0	0.1	1.866	3.0	6.0		0.797	0.414	0.135	13.411	0.00
12/04/22	3.253	11.0	9.0	<0.3	1.997	20.0	9.2	0.1	5.650	10.6	8.0	<0.1	2.009	2.6	2.0	<0.1	0.796	0.413	0.120	14.238	0.00
12/05/22	3.307	8.5	9.5	<0.3	2.066	14.7		<0.1	7.950	10.8	10.0	<0.1	1.956	0.8	2.0	<0.1	0.797	0.409	0.135	16.620	0.03
12/06/22	3.450	11.0	6.9	<0.3	3.312	14.0	5.7	0.1	7.250	9.4	9.0	<0.1	1.370	5.9	4.0	<0.1	0.797	0.403	0.128	16.710	0.00
12/07/22	3.448	12.0	9.0	<0.3	3.233	16.0	5.5	<0.1	4.150	8.8	6.0	0.1	1.260	4.6	3.0	<0.1	0.796	0.417	0.131	13.435	0.07
12/08/22	3.357	10.0	10.0	<0.3	2.252	18.5	5.2	<0.1	4.100	6.5	7.0	0.1	2.372	3.0	4.0	<0.1	0.797	0.415	0.144	13.437	0.04
12/09/22	3.270	12.0	14.0	<0.3	3.415	13.3	4.3	2.0	6.580	7.1	5.0	0.3	2.483	3.9	4.0	<0.1	0.789	0.408	0.142	17.087	0.00
12/10/22	3.244	13.0		<0.3	3.115	17.4	7.4	0.1	5.350	6.4	12.0		1.498	3.8	2.0		0.788	0.411	0.130	14.536	0.00
12/11/22	3.315	8.2	6.9	<0.3	3.511	18.7	6.9	0.1	5.450	7.8	5.0	0.3	2.147	4.0	4.0	<0.1	0.787	0.412	0.121	15.743	1.00
12/12/22	4.269	15.0	8.7	<0.3	3.668	18.3		0.1	9.170	9.8	6.0	0.1	2.715	1.0	2.0	<0.1	0.788	0.401	0.135	21.146	0.39
12/13/22	3.613	8.2	18.0	<0.3	3.466	20.3	8.2	<0.1	8.490	15.1	9.0	0.3	2.815	3.8	3.0	<0.1	0.788	0.400	0.009	19.581	0.00
12/14/22	3.326	11.0	16.0	<0.3	2.704	15.7	6.4	<0.1	7.290	16.0	7.0	0.1	2.574	3.6	2.0	0.1	0.787	0.399	0.004	17.084	0.00
12/15/22	3.312	8.8	18.0	<0.3	3.547	6.9	3.5	<0.1	7.670	10.3	10.0	<0.1	2.495	3.4	7.0	<0.1	0.773	0.397	0.004	18.198	0.00
12/16/22	3.325	15.0	19.0	<0.3	3.191	15.0	5.5	<0.1	7.340	10.7	5.0	0.1	2.490	4.3	3.0	<0.1	0.788	0.427	0.133	17.694	0.00
12/17/22	3.314	22.0		<0.3	2.739	19.0	8.4	<0.1	7.320	11.8	7.0		2.293	4.7	7.0		0.787	0.457	0.003	16.913	0.00
12/18/22	3.330	13.0	16.0	<0.3	2.805	15.7	6.9	0.1	7.560	12.4	6.0	<0.1	2.276	6.4	8.0	<0.1	0.787	0.468	0.006	17.232	0.00
12/19/22	3.327	19.0	8.9	<0.3	3.373	14.0		0.1	7.650	12.3	8.0	0.2	2.230	2.0	2.0	0.2	0.788	0.466	0.125	17.959	0.00
12/20/22	3.322	13.0	8.5	<0.3	3.469	22.7	8.2	0.1	7.590	8.6	8.0	0.1	2.207	6.0	3.0	<0.1	0.787	0.493	0.143	18.011	0.00
12/21/22	3.329	18.0	10.0	<0.3	3.050	18.7	5.7	<0.1	7.420	8.6	4.0	0.2	2.259	4.9	4.0	<0.1	0.788	0.487	0.124	17.457	0.00
12/22/22	3.421	15.0	12.0	<0.3	3.202	16.3	5.7	<0.1	5.460	8.8	4.0	0.4	1.600	1.4	3.0	<0.1	0.787	0.498	0.143	15.111	0.00
12/23/22	3.500	22.0		<0.3	3.012	16.3	5.1	0.1	5.750	9.7	22.0	0.2	2.302	4.0	8.0		0.788	0.514	0.000	15.866	0.00
12/24/22	3.395	16.0		<0.3	3.650	21.7	7.9	<0.1	5.970	15.8	6.0		1.869	5.6	10.0		0.787	0.506	0.000	16.177	0.00
12/25/22	3.396	14.0	13.0	<0.3	3.140	14.0	4.6	<0.1	7.950	12.8	6.0	0.6	2.344	6.5	5.0	0.1	0.787	0.502	0.000	18.119	0.00
12/26/22	3.388	17.0	13.0	<0.3	2.872	26.0		<0.1	6.880	8.2	5.0	0.2	2.520	2.2	2.0	<0.1	0.787	0.496	0.000	16.943	0.00
12/27/22	3.660	17.0	15.0	<0.3	3.277	14.3	7.8	<0.1	7.310	11.3	3.0	0.2	2.595	2.7	2.0	<0.1	0.788	0.490	0.000	18.120	0.35
12/28/22	4.018	17.0	17.0	<0.3	3.362	22.7	8.4	0.1	7.850	9.2	6.0	0.1	2.676	6.6	3.0	0.1	0.788	0.506	0.003	19.203	0.15
12/29/22	3.803	18.0	14.0	<0.3	3.049	6.7	3.1	0.1	5.130	9.3	6.0	0.1	2.805	1.6	3.0	0.1	0.787	0.502	0.113	16.189	0.00
12/30/22	3.428	20.0		<0.3	3.418	13.3	4.4	<0.1	5.430	7.5	5.0	0.1	2.607	3.2	4.0	<0.1	0.788	0.549	0.138	16.358	0.01
12/31/22	3.321	16.0		<0.3	3.987	19.3	10.3	<0.1	4.640	6.1	4.0		2.648	0.9	3.0		0.513	0.556	0.124	15.789	1.07
AVG	3.440	14.0	12.2	<0.3	3.099	17.6	6.9	<0.2	6.435	9.8	6.9	<0.2	2.225	3.6	3.9	<0.1	0.780	0.453	0.087	16.519	
TOTAL	106.65				96.08				199.48				68.97				24.19	14.05	2.682	512.09	3.11

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1 2023  
 SAMPLE SOURCE: Surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0651

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage				Water	H2O	Water	Water	Birds
			Coliform	Coliform	coccus	Origin		Oil &	Odor					
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	Grease						
			SM9222B	SM9222D	EPA 1600					Color	Temp(F)	Condition	Outlet	
S3	12/05/22	1030	<10	<10	<2	None	None	None	None	Green	61	Slightly Turbid		
S4	12/05/22	1012	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S5	12/05/22	1001	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	12/05/22	945	<10	<100	8	None	None	None	None	Green		Slightly Turbid		
WEST	12/05/22	942	30	<100	4	None	None	None	None	Green		Slightly Turbid		
S7	12/05/22	937	<10	200	4	None	None	None	None	Green		Slightly Turbid		
S8	12/05/22	931	<10	300	<2	None	None	None	None	Green		Slightly Turbid		
S9	12/05/22	913	<10	<10	4	None	None	None	None	Green		Slightly Turbid		
ACM1	12/05/22	910	<10	<10	10	None	None	None	None	Green		Slightly Turbid		
S10	12/05/22	844	<10	100	<2	None	None	None	None	Green		Slightly Turbid		
S11	12/05/22	837	<10	20	2	None	None	None	None	Green		Slightly Turbid		
S12	12/05/22	830	<10	10	20	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0612

Weather: Clear

COMMENTS: Duplicate at S-5

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage				Water	H2O	Water	Water	Birds
			Coliform	Coliform	coccus	Origin		Oil &						
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	Grease	Odor					
			SM9222B	SM9222D	EPA 1600					Color	Temp(F)	Condition	Outlet	
S3	12/14/22	0739	<10	<10	<2	None	None	None	None	Green	57	Slightly Turbid	Flowing	
S4	12/14/22	0954	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S5	12/14/22	0943	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S6	12/14/22	0923	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	12/14/22	0920	10	<10	2	None	None	None	None	Green		Slightly Turbid		
S7	12/14/22	0916	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	12/14/22	0854	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S9	12/14/22	0850	100	20	<10	None	None	None	None	Green		Slightly Turbid		
ACM1	12/14/22	0840	560	200	230	None	None	None	None	Green		Slightly Turbid		
S10	12/14/22	0813	10	<10	<2	None	None	None	None	Green	Slightly Turbid			
S11	12/14/22	0807	<10	10	<2	None	None	None	None	Green	Slightly Turbid			
S12	12/14/22	0801	50	80	2	None	None	None	None	Green	Slightly Turbid			

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100m

Unified Beach Monitoring

#3

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0520

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore							
S3	12/19/22	0812	<10	<10	2	None	None	None	None	Blue		Clear		
S4	12/19/22	1022	10	<10	<2	None	None	None	None	Blue		Clear		
S5	12/19/22	1015	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	12/19/22	0939	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	12/19/22	0942	<10	<10	<2	None	None	None	None	Blue		Clear		
S7	12/19/22	0947	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	12/19/22	0930	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	12/19/22	0922	<10	<10	4	None	None	None	None	Blue		Clear		
ACM1	12/19/22	0848	260	40	54	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	12/19/22	0842	<10	<10	<2	None	None	None	None	Blue		Clear		
S11	12/19/22	0834	10	<10	2	None	None	None	None	Blue		Clear		
S12	12/19/22	0830	10	10	10	None	None	None	None	Blue	60	Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.



Unified Beach Monitoring

#4

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0832

Weather: Overcast

COMMENTS: Duplicate at S-5

0.0

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform	Coliform	coccus	Onshore	Offshore							
			CFU/100ml	CFU/100ml	CFU/100ml									
			SM9222B	SM9222D	EPA 1600									
S3	12/29/22	0747	<10	<10	<2	None	None	None	None	Green	57	Slightly Turbid	Flowing	
S4	12/29/22	0951	40	<10	10	None	None	None	None	Green		Slightly Turbid		
S5	12/29/22	0935	60	<10	10	None	None	None	None	Green		Slightly Turbid		
S6	12/29/22	0911	60	<10	8	None	None	None	None	Green		Slightly Turbid		
WEST	12/29/22	0908	20	<10	8	None	None	None	None	Green		Slightly Turbid		
S7	12/29/22	0903	130	<10	4	None	None	None	None	Green		Slightly Turbid		
S8	12/29/22	0852	70	<10	8	None	None	None	None	Green		Slightly Turbid		
S9	12/29/22	0848	420	20	10	None	None	None	None	Green		Slightly Turbid		
ACM1	12/29/22	0837	>=6900	1,200	830	None	None	None	None	Brown		Slightly Turbid		
S10	12/29/22	0821	20	<10	8	None	None	None	None	Green		Slightly Turbid		
S11	12/29/22	0816	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S12	12/29/22	0809	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

## Unified Beach Water Quality Sample Station Map – Aliso Creek Ocean Outfall



## **Aliso Creek Ocean Outfall**

### **Unified Beach Water Quality Monitoring Stations**

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
S3	Three Arch Bay Beach; 10,000' down-coast from ACOO
S4	Ninth Street-1000 Steps; 5,000' down-coast from ACOO
S5	Laguna Lido Beach; 4,000 down-coast from ACOO
West	West Street Drain; 2,000' down-coast from ACOO
S6	Table Rock Beach; 3,000' down-coast from ACOO
S7	Camel Point Beach; 2,000' down-coast from ACOO
S8	Aliso Beach south; 1,000' down-coast from ACOO
S9	Aliso Beach middle; at ACOO
ACM1	Aliso Beach at Aliso Creek Outlet
S10	Aliso Beach north; 1,000' up-coast of ACOO
S11	Treasure Island Beach; 2,000' up-coast of ACOC
S12	Goff Island Beach; 3,000' up-coast of ACOO

## MONITORING REPORT

## Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: December 2022

REPORT FREQUENCY: Monthly

REPORT DUE: February 1, 2023

SAMPLE SOURCE: Receiving water, nearshore and offshore

SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit

TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: High Tide 0721

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	12/06/22	4	2	<2	805			
A-1	Mid depth	12/06/22	10	10	<10				
A-2	Surface	12/06/22	6	4	<2	751			
A-2	Mid depth	12/06/22	<10	<10	<10				
A-3	Surface	12/06/22	8	<2	<2	757			
A-3	Mid depth	12/06/22	<10	<10	<10				
A-4	Surface	12/06/22	2	<2	<2	810			
A-4	Mid depth	12/06/22	<10	<10	<10				
A-5	Surface	12/06/22	10	<2	<2	802			
A-5	Mid depth	12/06/22	30	<10	<10				
B-1	Surface	12/06/22	<2	2	<2	740			
B-1	Mid depth	12/06/22	30	20	<10				
B-2	Surface	12/06/22	6	<2	<2	817			
B-2	Mid depth	12/06/22	<10	<10	<10				
N1	Surface	12/06/22	<2	2	<2	834			
N2	Surface	12/06/22	4	<2	<2	832			
N3	Surface	12/06/22	<2	<2	<2	830			
N4	Surface	12/06/22	<2	<2	<2	827			
N5	Surface	12/06/22	2	2	<2	825			
N6	Surface	12/06/22	4	<2	<2	823			
N7	Surface	12/06/22	2	4	<2	822			

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of wasteshall not cause aesthetically undesirable discoloration of the ocean surface.

**Compliance Summary Report  
Aliso Creek Ocean Outfall 2022**

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
IRWD - Los Alisos	5/4/2022	cBOD	Deficient Monitoring	mgl	Daily Monitoring	Not Reported	\$3000
IRWD - Los Alisos	5/4/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily Monitoring	Not Reported	\$3000
ETWD - WRP	5/18/2022	Settleable Solids	Category 1 Pollutant	m/L	3.00	7.00	\$3,000
SCWD - ACWHP	5/31/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily Monitoring	Not Reported	\$3000
SCWD - ACWHP	5/31/2022	pH	Deficient Monitoring	SU	Daily Monitoring	Not Reported	\$3000
ETWD - WRP	8/5/2022	cBOD	Deficient Monitoring	mgl	Daily Monitoring	Not Reported	\$3000
IRWD - SGU & IDP Brine	10/31/2022	Oil and Grease	Deficient Monitoring	mgl	Monthly Monitoring	Not Reported	\$3000
IRWD - SGU & IDP Brine	10/21/2022	pH	Deficient Monitoring	mgl	Daily Monitoring	Not Reported	\$3000



**SOCWA and MEMBER AGENCY FACILITIES  
ACOO Spill / Overflow Report Log - 2022  
Order No. R9-2022-0006 ~ NPDES Permit No. CA0107611**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
No spills during this monitoring period ending December 31, 2022.							

# SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

December 2022

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	inches
12/01/22	7.050	9.6	7.7	<0.1	2.687	4.7	6.0	<0.1	0.000				0.172	7.8	6.9	<0.1	0.150	0.178	10.560	0.00
12/02/22	7.110	8.1	9.3	<0.1	2.846	6.5	6.0	<0.1	0.000				0.161	12.0	10.4	<0.1	0.380	0.184	10.660	0.00
12/03/22	6.730	7.6	6.3	<0.1	2.753		7.0		0.000				0.177				0.380	0.179	10.640	0.00
12/04/22	6.740	9.9	8.7	<0.1	3.172				0.000				0.218				0.380	0.179	10.630	0.00
12/05/22	6.990	8.6	11.0	<0.1	3.170	6.4	8.0	<0.1	0.000				0.123	8.2	6.8	<0.1	0.320	0.184	11.050	0.03
12/06/22	6.930	7.0	6.6	0.1	2.485	6.4	7.0	<0.1	0.000				0.128	7.6	6.8	<0.1	0.000	0.179	10.580	0.00
12/07/22	6.890	6.7	5.6	<0.1	2.742	6.8	7.0	<0.1	0.050	2.1	3.0	0.1	0.159	15.2	8.8	<0.1	0.000	0.183	9.990	0.07
12/08/22	6.820	7.8	12.6	0.2	2.686	8.3	8.0	<0.1	0.011	3.9	3.9	<0.1	0.165	9.2	8.2	<0.1	0.000	0.179	9.870	0.04
12/09/22	6.760	6.8	8.4	<0.1	3.093	8.4	7.0	<0.1	0.000				0.141	8.2	7.2	<0.1	0.000	0.179	10.090	0.00
12/10/22	6.950	10.8	8.0		3.020		8.0		0.000				0.153				0.000	0.184	9.930	0.00
12/11/22	7.080	12.6	9.7	<0.1	3.687				0.030	10.0	8.4	<0.1	0.311				0.000	0.178	10.430	1.00
12/12/22	9.170	16.1	10.4	0.1	3.560	7.0	8.0	<0.1	0.000				0.165	8.2	5.8	<0.1	0.000	0.179	13.070	0.39
12/13/22	8.320	10.9	7.0	<0.1	3.462	6.6	8.0	<0.1	0.000				0.129	8.6	7.8	<0.1	0.000	0.184	12.690	0.00
12/14/22	7.370	9.0	5.1	0.3	3.086	6.0	5.0	<0.1	0.022	5.0	1.6	0.2	0.166	5.6	4.8	<0.1	0.000	0.179	11.000	0.00
12/15/22	7.150	9.2	5.8	0.1	3.763	6.7	6.0	<0.1	0.000				0.145	7.0	6.5	<0.1	0.000	0.180	11.100	0.00
12/16/22	7.120	7.6	7.8	<0.1	3.638	8.9	8.0	<0.1	0.000				0.128	10.8	8.6	<0.1	0.000	0.184	10.770	0.00
12/17/22	7.070	8.7	8.8		3.314		8.0		0.000				0.196				0.000	0.179	10.660	0.00
12/18/22	7.110	8.7	10.0	<0.1	3.895				0.000				0.343				0.000	0.178	10.940	0.00
12/19/22	7.150	8.9	9.4	<0.1	3.315	8.0	10.0	<0.1	0.000				0.127	9.0	6.4	<0.1	0.000	0.184	11.160	0.00
12/20/22	7.150	7.6	7.4	<0.1	3.382	8.0	10.0	<0.1	0.000				0.134	16.4	11.6	<0.1	0.000	0.169	10.810	0.00
12/21/22	7.140	9.1	8.8	<0.1	3.147	8.0	6.0	<0.1	0.014	2.6	2.8	0.2	0.162	9.6	8.2	<0.1	0.000	0.183	10.740	0.00
12/22/22	7.110	9.9	8.4	<0.1	3.325	7.6	6.0	<0.1	0.000				0.204	8.6	7.4	<0.1	0.000	0.179	10.580	0.00
12/23/22	7.150	15.3	16.0	0.2	3.254	9.2	8.0	<0.1	0.000				0.178	8.6	7.5	<0.1	0.000	0.179	10.810	0.00
12/24/22	7.420	20.5	10.7		3.905		9.0		0.000				0.238				0.000	0.184	11.150	0.00
12/25/22	7.380	22.9	16.7	0.1	3.037				0.000				0.140				0.000	0.179	11.260	0.00
12/26/22	6.420	21.4	7.7	<0.1	1.807	8.2	7.0	<0.1	0.000				0.170	8.8	7.2	<0.1	0.000	0.179	10.260	0.00
12/27/22	6.990	11.8	10.6	0.2	4.069	8.7	8.0	<0.1	0.000				0.220	7.8	5.9	<0.1	0.000	0.183	10.690	0.35
12/28/22	7.740	12.7	9.7	0.1	3.139	5.9	4.0	<0.1	0.019	2.2	2.4	<0.1	0.163	15.4	11.8	<0.1	0.000	0.179	11.340	0.15
12/29/22	7.360	9.1	6.3	0.1	3.156	4.6	5.0	<0.1	0.000				0.359	12.6	9.8	<0.1	0.000	0.184	11.050	0.00
12/30/22	6.910	7.5	8.4	<0.1	2.605	5.4	5.0	<0.1	0.000				0.550	8.2	7.2	<0.1	0.000	0.180	10.360	0.01
12/31/22	6.960	9.3	12.0		3.287		8.0		0.000				0.819				0.000	0.180	11.090	1.07
AVG	7.169	10.7	9.1	<0.1	3.177	7.1	7.1	<0.1	0.005	4.3	3.7	<0.1	0.214	9.7	7.8	<0.1	0.052	0.180	10.837	
TOTAL	222.240				98.487				0.146				6.644				1.610	5.591	335.960	3.11

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0721

Weather: Partly Cloudy

COMMENTS: Duplicate at S-5

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
S0	12/06/22	0828	<20	<20	12	None	None	None	None	Green			Slightly Turbid		
S1	12/06/22	0832	<20	20	4	None	None	None	None	Green			Slightly Turbid		
S2	12/06/22	0753	<20	<20	6	None	None	None	None	Green			Slightly Turbid		
DSB5	12/06/22	0747	<20	80	10	None	None	None	None	Green			Slightly Turbid		
S3	12/06/22	0847	40	<20	6	None	None	None	None	Green			Slightly Turbid		
DSB4	12/06/22	0852	<20	20	20	None	None	None	None	Green			Slightly Turbid		
S5	12/06/22	0906	<20	<20	4	None	None	None	None	Green	60		Slightly Turbid		
DSB1	12/06/22	0901	<20	<20	<2	None	None	None	None	Green			Slightly Turbid		
SJC1	12/06/22	0801	<100	<100	140	None	None	None	None	Green			Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.



Unified Beach Monitoring

#2

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0810

Weather: Overcast

COMMENTS: Duplicate at S-5

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
S0	12/15/22	0828	120	60	34	None	None	None	None	Green			Slightly Turbid		
S1	12/15/22	0832	160	20	22	None	None	None	None	Green			Slightly Turbid		
S2	12/15/22	0754	40	<20	20	None	None	None	None	Green			Slightly Turbid		
DSB5	12/15/22	0746	2,200	100	70	None	None	None	None	Green			Slightly Turbid	Flowing	
S3	12/15/22	0846	220	120	36	None	None	None	None	Green			Slightly Turbid		
DSB4	12/15/22	0849	200	40	44	None	None	None	None	Green			Slightly Turbid		
S5	12/15/22	859	40	20	10	None	None	None	None	Green	56		Slightly Turbid		
DSB1	12/15/22	0855	20	20	20	None	None	None	None	Green			Slightly Turbid		
SJC1	12/15/22	0802	600	<100	200	None	None	None	None	Green			Slightly Turbid	Flowing	

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0633

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore		Odor						
S0	12/21/22	0907	<20	60	32	None	None	None	None	Green			Slightly Turbid		
S1	12/21/22	0915	<20	<20	2	None	None	None	None	Green			Slightly Turbid		
S2	12/21/22	0852	120	<20	78	None	None	None	None	Green			Slightly Turbid		
DSB5	12/21/22	0820	<200	340	660	None	None	None	None	Green	49		Slightly Turbid	Flowing	
S3	12/21/22	0943	<20	20	84	None	None	None	None	Green			Clear		
DSB4	12/21/22	0920	60	<20	98	None	None	None	None	Green			Clear		
S5	12/21/22	0932	<20	20	2	None	None	None	None	Green			Clear		
DSB1	12/21/22	0915	<20	<20	10	None	None	None	None	Green			Clear		
SJC1	12/21/22	0840	200	<100	40	None	None	None	None	Green			Slightly Turbid	Flowing	

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#4

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: December 2022  
 REPORT DUE: February 1, 2023  
 SAMPLE SOURCE: Receiving water surf zone  
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly  
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan  
 SAMPLES COLLECTED BY: SOCWA Lab  
 SAMPLES ANALYZED BY: SOCWA Lab

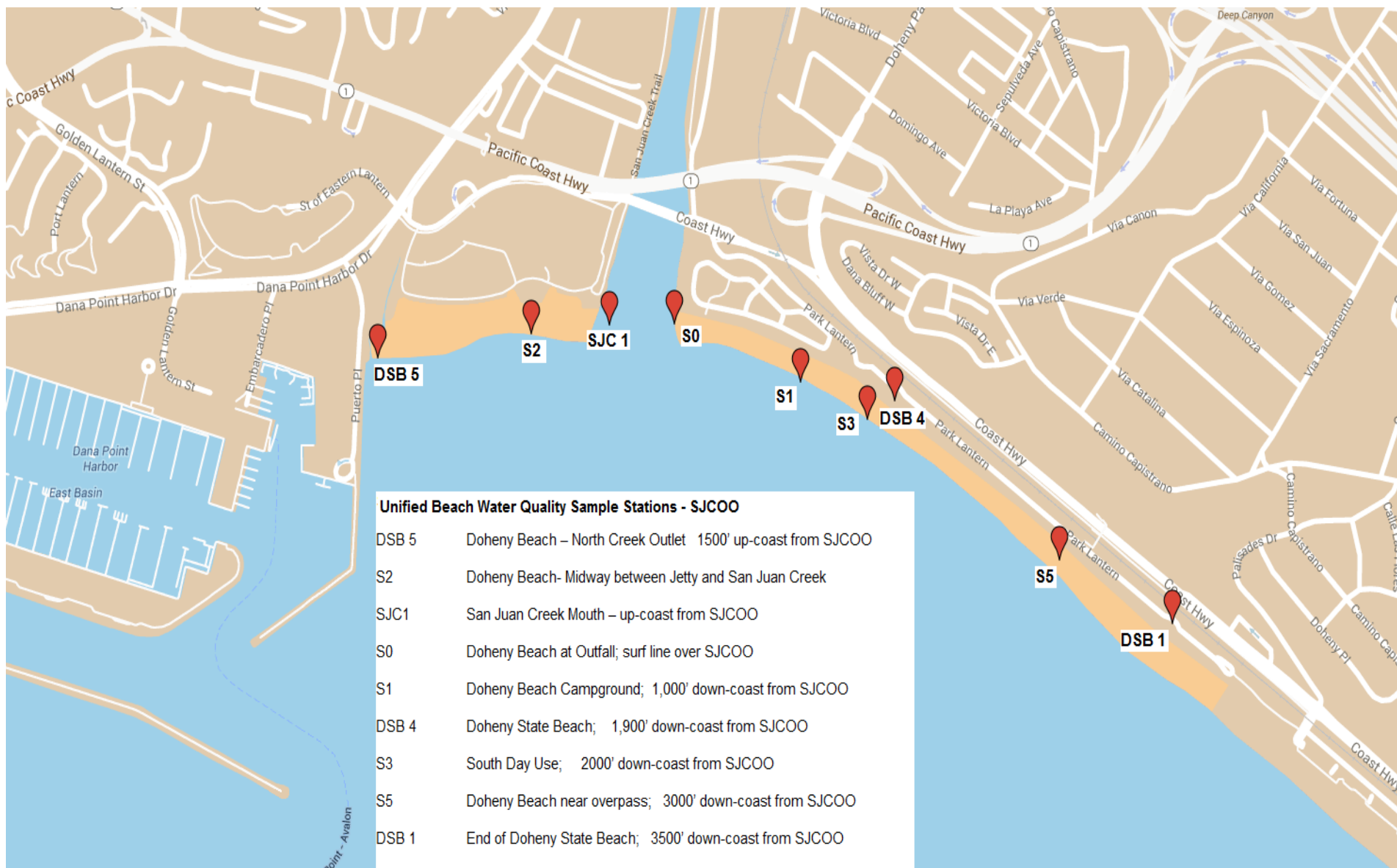
Tidal Condition: Low Tide 0656

Weather: Overcast

COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero-coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color					
S0	12/28/22	0857	11,000	5,000	>=4,000	None	None	None	None	Brown			Slightly Turbid		
S1	12/28/22	0901	3,800	1,700	>=4000	None	None	None	None	Brown			Slightly Turbid		
S2	12/28/22	0831	520	80	100	None	None	None	None	Green			Slightly Turbid		
DSB5	12/28/22	0824	1,000	100	260	None	None	None	None	Green			Slightly Turbid	Flowing	
S3	12/28/22	0916	1600	960	1,500	None	None	None	None	Green			Slightly Turbid		
DSB4	12/28/22	0919	3200	400	2400	None	None	None	None	Brown			Slightly Turbid		
S5	12/28/22	0930	560	100	560	None	None	None	None	Green	59		Slightly Turbid		
DSB1	12/28/22	0927	660	220	560	None	None	None	None	Green			Slightly Turbid		
SJC1	12/28/22	0839	500	<100	100	None	None	None	None	Brown			Slightly Turbid	Flowing	

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.



## **San Juan Creek Ocean Outfall**

### **Unified Beach Water Quality Monitoring Stations**

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
DSB 5	Doheny Beach – North Creek Outlet 1500' up-coast from SJCOO
S2	Doheny Beach- Midway between Jetty and San Juan Creek
SJC1	San Juan Creek Mouth – up-coast from SJCOO
S0	Doheny Beach at Outfall; surf line over SJCOO
S1	Doheny Beach Campground; 1,000' down-coast from SJCOO
DSB 4	Doheny State Beach; 1,900' down-coast from SJCOO
S3	South Day Use; 2000' down-coast from SJCOO
S5	Doheny Beach near overpass; 3000' down-coast from SJCOO
DSB 1	End of Doheny State Beach; 3500' down-coast from SJCOO

## MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: December 2022

REPORT FREQUENCY: Monthly

REPORT DUE: February 1, 2023

SAMPLE SOURCE: Receiving water, nearshore and offshore

SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit

TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: High Tide 0721

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	12/06/22	<2	<2	<2	930			
A-1	Mid depth	12/06/22	<10	<10	<10				
A-2	Surface	12/06/22	<2	<2	<2	937			
A-2	Mid depth	12/06/22	<10	<10	<10				
A-3	Surface	12/06/22	<2	<2	<2	941			
A-3	Mid depth	12/06/22	<10	<10	<10				
A-4	Surface	12/06/22	<2	<2	<2	948			
A-4	Mid depth	12/06/22	<10	<10	<10				
A-5	Surface	12/06/22	<2	<2	<2	945			
A-5	Mid depth	12/06/22	<10	<10	<10				
B-1	Surface	12/06/22	<2	<2	<2	925			
B-1	Mid depth	12/06/22	<10	<10	<10				
B-2	Surface	12/06/22	<2	<2	<2	956			
B-2	Mid depth	12/06/22	<10	<10	<10				
N1	Surface	12/06/22	<2	<2	<2	915			
N2	Surface	12/06/22	<2	<2	<2	912			
N3	Surface	12/06/22	<2	<2	<2	910			
N4	Surface	12/06/22	6	<2	<2	907			
N5	Surface	12/06/22	<2	<2	<2	903			
N6	Surface	12/06/22	<2	<2	<2	900			

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.

**Compliance Summary Report  
San Juan Creek Ocean Outfall 2022**

SJCOO Permit Order No. R9-2012-0012 & R9-2022-0005							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
SMWD/CSJC	03/09/2022	Oil and Grease	Weekly Average	mg/L	25.00	57.00	\$3,000
SMWD/CSJC	03/09/2022	Oil and Grease	Monthly Average	mg/L	40.00	57.00	\$3,000
CSC	03/18/2022	pH	Daily	SU	Daily	Not Reported	\$3,000
CSC	03/18/2022	Settleable Solids	Daily	ml/L	Daily	Not Reported	\$3,000
MNWD	3/30/2022	Settleable Solids	Daily	ml/L	3.00	3.60	\$3,000
MNWD	4/8/2022	Settleable Solids	Daily	ml/L	3.00	5.00	\$3,000
SCWD - GWRF	5/31/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily	Monthly	\$3,000
SCWD - GWRF	5/31/2022	pH	Deficient Monitoring	SU	Daily	Monthly	\$3,000



**SOCWA and MEMBER AGENCY FACILITIES**  
**SJCOO Spill / Overflow Report Log - 2022**  
**Order No. R9-2022-0005 ~ NPDES Permit No. CA0107417**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
No spills during this monitoring period ending December 31, 2022.							



### Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - RTP	1/2/2022	TDS	12-Month	mg/L	1000	1208	
SOCWA - RTP	1/2/2022	TDS	Daily Maximum	mg/L	1100	1310	
SOCWA - RTP	1/2/2022	Manganese	12-Month	mg/L	0.05	0.130	
TCWD - RRWRP	1/4/2022	TDS	12 month	mg/L	1000	1031	
TCWD - RRWRP	1/31/2022	Nitrate	Quarterly	mg/L	45	19.60	
SOCWA - RTP	2/1/2022	TDS	12-Month	mg/L	1000	1214	
SOCWA - RTP	2/1/2022	TDS	Daily Maximum	mg/L	1100	1200	
SOCWA - RTP	2/1/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - RTP	2/1/2022	Iron	12-Month	mg/L	0.3	0.308	
SOCWA - CTP	2/1/2022	TDS	Daily Maximum	mg/L	1100	1320	
TCWD - RRWRP	2/1/2022	TDS	12 month	mg/L	1000	1035	
SOCWA - RTP	3/1/2022	TDS	12-Month	mg/L	1000	1218	
SOCWA - RTP	3/1/2022	TDS	Daily Maximum	mg/L	1100	1200	
SOCWA - RTP	3/1/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - RTP	3/1/2022	Iron	12-Month	mg/L	0.3	0.309	
SOCWA - CTP	3/2/2022	TDS	Daily Maximum	mg/L	1100	1340	
SOCWA - CTP	3/3/2022	Manganese	12-Month	mg/L	0.05	0.808	
TCWD - RRWRP	3/1/2022	TDS	12 month	mg/L	1000	1054	
MNWD - 3A	3/16/2022	TDS	12-Month	mg/L	1000	1136	
MNWD - 3A	3/16/2022	TDS	Daily Maximum	mg/L	1100	1220	
SOCWA - RTP	4/7/2022	TDS	12-Month	mg/L	1000	1226	
SOCWA - RTP	4/7/2022	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	4/7/2022	Manganese	12-Month	mg/L	0.05	0.102	
SOCWA - RTP	4/7/2022	Iron	12-Month	mg/L	0.3	0.306	
SOCWA - CTP	4/7/2022	Manganese	12-Month	mg/L	0.05	0.114	
TCWD - RRWRP	4/5/2022	TDS	hach	mg/L	1000	1052	
SOCWA - RTP	5/5/2022	TDS	12-Month	mg/L	1000	1230	
SOCWA - RTP	5/5/2022	TDS	Daily Maximum	mg/L	1100	1310	
SOCWA - RTP	5/5/2022	Manganese	12-Month	mg/L	0.05	0.102	
SOCWA - CTP	5/5/2022	Manganese	12-Month	mg/L	0.05	0.121	
TCWD - RRWRP	5/3/2022	TDS	12 month	mg/L	1000	1054	
MNWD - 3A	5/9/2022	TDS	12-Month	mg/L	1000	1147	
MNWD - 3A	5/9/2022	TDS	Daily Maximum	mg/L	1100	1190	
MNWD - 3A	5/9/2022	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	6/2/2022	TDS	12-Month	mg/L	1000	1235	
SOCWA - RTP	6/2/2022	TDS	Daily Maximum	mg/L	1100	1270	
SOCWA - RTP	6/2/2022	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	6/2/2022	Manganese	12-Month	mg/L	0.05	0.120	
TCWD - RRWRP	6/7/2022	TDS	12 month	mg/L	1000	1070	
SOCWA - RTP	7/14/2022	TDS	12-Month	mg/L	1000	1245	
SOCWA - RTP	7/14/2022	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	7/14/2022	Manganese	12-Month	mg/L	0.05	0.099	
SOCWA - CTP	7/14/2022	Manganese	12-Month	mg/L	0.05	0.116	
MNWD - 3A	7/5/2022	TDS	12-Month	mg/L	1000	1141	
MNWD - 3A	7/5/2022	Manganese	12-Month	mg/L	0.05	0.07	
TCWD - RRWRP	7/7/2022	TDS	12 month	mg/L	1000	1070	
SOCWA - RTP	8/4/2022	TDS	12-Month	mg/L	1000	1252	
SOCWA - RTP	8/4/2022	TDS	Daily Maximum	mg/L	1100	1290	
SOCWA - RTP	8/4/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - CTP	8/4/2022	Manganese	12-Month	mg/L	0.05	0.113	
MNWD - 3A	8/15/2022	TDS	12-Month	mg/L	1000	1154	
MNWD - 3A	8/15/2022	TDS	Daily Maximum	mg/L	1100	1290	
MNWD - 3A	8/15/2022	Manganese	12-Month	mg/L	0.05	0.07	
TCWD - RRWRP	9/6/2022	TDS	12 month	mg/L	1000	1075	
SOCWA - RTP	9/1/2022	TDS	12-Month	mg/L	1000	1259	
SOCWA - RTP	9/1/2022	TDS	Daily Maximum	mg/L	1100	1250	
SOCWA - RTP	9/1/2022	Manganese	12-Month	mg/L	0.05	0.104	

### Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - CTP	9/1/2022	Manganese	12-Month	mg/L	0.05	0.118	
MNWD - 3A	9/19/2022	TDS	12-Month	mg/L	1000	1146	
MNWD - 3A	9/19/2022	TDS	Daily Maximum	mg/L	1100	1100	
MNWD - 3A	9/19/2022	Manganese	12-Month	mg/L	0.05	0.08	
TCWD - RRWRP	10/5/2022	TDS	12 month	mg/L	1000	1076	
SOCWA - RTP	10/6/2022	TDS	12-Month	mg/L	1000	1262	
SOCWA - RTP	10/6/2022	TDS	Daily Maximum	mg/L	1100	1290	
SOCWA - RTP	10/6/2022	Manganese	12-Month	mg/L	0.05	0.103	
SOCWA - CTP	10/6/2022	Manganese	12-Month	mg/L	0.05	0.122	
MNWD - 3A	10/4/2022	TDS	12-Month	mg/L	1000	1159	
MNWD - 3A	10/4/2022	TDS	Daily Maximum	mg/L	1100	1150	
MNWD - 3A	10/4/2022	Manganese	12-Month	mg/L	0.05	0.08	
TCWD - RRWRP	11/1/2022	TDS	12 month	mg/L	1000	1078	
SOCWA - RTP	11/30/2022	TDS	12-Month	mg/L	1000	1263	
SOCWA - RTP	11/30/2022	TDS	Daily Maximum	mg/L	1100	1340	
SOCWA - RTP	11/30/2022	Manganese	12-Month	mg/L	0.05	0.103	
SOCWA - CTP	11/30/2022	Manganese	12-Month	mg/L	0.05	0.122	
MNWD - 3A	11/7/2022	TDS	12-Month	mg/L	1000	1161	
MNWD - 3A	11/7/2022	TDS	Daily Maximum	mg/L	1100	1180	
MNWD - 3A	11/7/2022	Manganese	12-Month	mg/L	0.05	0.08	
TCWD - RRWRP	12/6/2022	TDS	12 month	mg/L	1000	1085	
SOCWA - RTP	12/1/2022	TDS	12-Month	mg/L	1000	1273	
SOCWA - RTP	12/1/2022	TDS	Daily Maximum	mg/L	1100	1370	
SOCWA - RTP	12/1/2022	Manganese	12-Month	mg/L	0.05	0.100	
SOCWA - CTP	12/1/2022	Manganese	12-Month	mg/L	0.05	0.130	
MNWD - 3A	12/5/2022	TDS	12-Month	mg/L	1000	1161	
MNWD - 3A	12/5/2022	TDS	Daily Maximum	mg/L	1100	1170	
MNWD - 3A	12/5/2022	Manganese	12-Month	mg/L	0.05	0.08	

# Recycled Water Report

## SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending:

Dec 31, 2022

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average  ***
TDS	mg/L	1000	1,085	884	925	866	1,161	1,273	1,130
Chloride	mg/L	375	248	190	209	243	233	262	279
Sulfate	mg/L	400	386	260	276	234	357	371	331
Sodium	mg/L	None	69	160	160	180		175	180
Alkalinity	mg/L	None	-	-	-	-		287	220
Adjusted SAR	Ratio	None	5.06	4.65	5.13	5.40	4.23	4.55	4.60
Iron	mg/L	0.3	0.01	0.02	0.12	0.02	0.17	0.29	0.13
Manganese	mg/L	0.05	0.01	0.02	0.04	0.01	0.08	0.10	0.12
MBAS	mg/L	0.5	ND	0.28	ND	ND	ND	ND	ND
Boron	mg/L	0.75	0.33	0.32	0.31	0.32	0.36	0.26	0.31
Fluoride	mg/L	None	0.65	0.68	0.66	0.94	0.75	0.76	0.84
Total Organic Carbon	mg/L	None	5.2	12.7	12.7	8.5	1.3	10.4	7.8

\*\*\* The CTP 12-month permit limits are listed below:

TDS	1200 mg/L
Chloride	400 mg/L
Sulfate	500 mg/L

SOCWA Service Area  
Recycled Water Production (ac-ft)  
2022

Agency	Facility or Region	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22	Nov '22	Dec '22	Annual Totals
CSJC 1	3-A Plant/MNWD	0	0	0	0	0	0	0	31.33	27.48	17.24	5.72	0	81.77
CSJC 2	Chiquita/SMWD	16.66	30.01	39.56	37.94	43.70	51.86	44.09	26.61	27.25	11.14	7.28	1.97	338.07
CSJC 3	Non-Domestic Well	1.00	7.71	18.53	22.22	29.98	32.14	46.46	37.06	41.77	37.70	35.80	28.20	338.57
ETWD	Region 8	37.87	112.25	138.10	155.44	187.78	218.36	199.48	186.46	161.53	115.09	79.90	31.12	1623.39
IRWD														
4	IRWD - 8	44.49	101.76	129.52	100.54	145.88	186.35	174.65	182.20	195.55	135.00	77.97	NR	1473.91
4	IRWD - 9	22.36	50.45	63.88	57.66	86.17	105.34	93.50	99.72	93.96	58.33	43.67	NR	775.05
SCWD	SOCWA CTP	9.15	63.52	76.57	96.78	125.07	139.32	131.16	98.67	81.60	48.41	53.76	40.87	964.89
MNWD	JRP	299.83	439.71	484.92	529.66	565.11	576.37	596.19	603.53	535.37	508.18	263.03	101.58	5503.47
	3-A Plant	.00	.00	37.40	.00	141.43	142.55	140.63	131.31	129.60	184.62	174.08	204.39	1286.01
5	CTP	-17.36	4.33	4.62	4.33	-.87	6.88	8.79	17.42	27.83	-12.86	-2.47	9.50	50.13
SMWD	Oso Creek	140.68	93.64	Offline	Offline	Offline	Offline	Offline	Offline	Offline	Offline	Offline	Offline	234.32
	Chiquita	489.98	436.03	486.30	458.98	481.82	461.07	472.15	479.27	460.12	475.28	473.32	495.32	5669.62
	Nichols	1.52	1.61	2.16	1.64	1.60	1.77	2.00	2.13	1.88	1.98	1.39	1.41	21.09
TCWD	RRWRP	49.52	42.36	48.19	44.44	46.17	42.89	45.95	45.38	42.88	43.00	45.42	48.82	545.02
TOTALS		1095.70	1383.39	1529.74	1509.64	1853.83	1964.90	1955.04	1941.08	1826.82	1623.12	1258.87	963.17	18905.29

1 Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.

2 Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.

3 Denotes nondomestic groundwater produced from wells used for landscape irrigation.

4 IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments

5 Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.

Note: All of ETWD reclaimed water produced and used in Region 8.

NR = No Report

# Pretreatment Report

# Agenda Item

## 6.C.

**Legal Counsel Review:** No

**Meeting Date:** February 2, 2023

**TO:** SOCWA Board of Directors

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Katie Greenwood, Source Control Manager

**SUBJECT:** Monthly Pretreatment Report – January 2023  
San Juan Creek Ocean Outfall  
NPDES Permit #CA0107417 Order # R9-2022-0005  
Aliso Creek Ocean Outfall  
NPDES Permit #CA0107611 Order # R9-2022-0006

---

### Summary of Program Activities

SOCWA Staff is starting to receive and review 2022 annual influent/effluent sampling result data for all nine treatment plants including SOCWA (JBL, CTP, RTP), SMWD (Chiquita, 3A, Oso), CSC, IRWD and ETWD. The data is being entered into the HACH Water Information Management Solution (WIMS) database so it may be uploaded electronically to the California Integrated Water Quality System (CIWQS) database. Staff is also working on completing the narrative portion of the 2022 SOCWA Annual Pretreatment report. The final report is due to the SDRWQCB March 1, 2023. A copy of the report will be distributed to Member agency (MA) Staff.

### Permit Related Activities

The following Wastewater Discharge (WD) Permits, Special Wastewater Discharge (SWD) Permits, Nuisance Water-Special Wastewater Discharge (NSWD) Permits, Non-Industrial Wastewater Discharge (NIWD) forms, and BMP letters were issued or are in the process of being drafted for issuance:

CSC/SMWD – Prima Deshecha Landfill (PDL) – On February 14, 2022, SOCWA received a WD Permit Application submitted on behalf of Orange County Waste & Recycling (OCWR) for proposed discharge from a treatment system for landfill gas condensate stream produced at PDL. A final project treatment design was submitted to SOCWA on October 11, 2022. Staff presented a summary report to the SOCWA Engineering Committee during the November 10, 2022, meeting. Santa Margarita Water District (SMWD) and City of San Clemente (CSC) requested technical and engineering reports associated with this permit request. Staff is working to set up a meeting between the applicant, SMWD, CSC and SOCWA key Staff to further discuss pilot study results and regulatory concerns.

SCWD – NSWD Permit No. SCWD-N4-010 for Three Arch Bay – Staff is working with SCWD and Three Arch Bay Staff to modify the existing NSWD Permit to add two new dry weather diversion connection points. SCWD is presently drafting an Amendment to the existing Agreement between SCWD and Three Arch Bay. Staff is aiming to complete this task by April 1, 2023.

SCWD - Burnham-Ward Properties LLC - The County of Orange - Dana Point Harbor Revitalization Project – On July 26, 2022, Staff received a SWD Permit Application to discharge water encountered during construction activities over a three-year period starting late October 2022. SOCWA provided a response letter to the application on September 19, 2022, stating concerns and a request for additional documentation and monitoring data. SOCWA and SCWD Staff met on-site with project contractor Staff from Snyder Langston and Rain for Rent on January 10, 2023, to evaluate the monitoring well sample locations and discuss the proposed plan for discharge to the sewer. Since then, the applicant has submitted additional monitoring data which SOCWA Staff is currently reviewing. Staff is also reviewing a summary of meeting notes for distribution to project Staff.

MNWD – WD Permit MNWD-NS1-002 for Jared the Galleria of Jewelry #2498 site located at 28241 Marguerite Parkway, Mission Viejo, CA 92692 – Jared closed the location in 2019 and the WD Permit was terminated. The site reopened this year and submitted a WD Permit application on December 13, 2022. The site performs light metal finishing associated with their jewelry repair department and is considered a non-significant categorical industrial user (CIU), discharging no more than 100 gpd of categorical wastewater. Staff prepared a draft permit for review and signature by MNWD Staff and is aiming to issue the permit by COB February 20, 2023.

IRWD – WD Permit IRWD-1-001 for the Dynacast, Inc. site located at 25952 Commercentre Drive, Lake Forest, CA 92630 – The current permit is set to expire on February 9, 2023. Staff has prepared a draft renewal permit and is aiming to issue by February 20, 2023.

SMWD – Applied Medical - 22432 Empresa, Rancho Santa Margarita, CA (Bldg R110) - At the request of SOCWA, Applied Medical submitted a permit application on January 9, 2023, for a new process and equipment used for expansion of high friction polyolefin tubing potentially subject to 40 CFR Part 463 – Plastics Molding and Forming Point Source Category, Subpart A – Contact Cooling. There are no pretreatment standards for this category. The staff is evaluating the process to decide whether it is best to put a permit in place and require, at a minimum, flow and pH be measured.

#### Summary of IWS Activities in SOCWA's Service Area - YTD through January 10, 2023

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	3	2	5	8	110	15	0	0	128
CSC (S)	0	10	35	18	181	1265	37	1	0	1546
CSJC (S)	0	2	27	59	137	1674	28	6	0	1927
ETWD (M)	0	3	88	0	262	131	50	0	0	487
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	0	4	51	21	63	914	18	0	0	1071
MNWD (S)	0	5	120	38	641	2117	149	0	0	3070
SMWD (S)	0	6	19	20	215	818	52	0	0	1130
SCWD (S)	0	8	33	7	148	186	15	0	0	397
TCWD (S)	0	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	8	1	0	0	0		0	0	9
Totals	0	50	387	168	1662	7248	366	7	0	9817

(S) = SOCWA conducts PT program  
(M) = MA conducts PT program /w SOCWA  
(U) = Urban Diversion Only

NIWD = Non-industrial Waste Discharger  
BMP = Best Management Practices  
FSE = Food Service Establishment

YTD = Year to Date  
OSE = Other Surveyed Establishment  
DSE = Dental Surveyed Establishment



# Agenda Item

## 6.D.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**STAFF CONTACTS:** David Baranowski, Director of Engineering

**SUBJECT:** Capital Improvement Program Status Report (*January*)

The status of the SOCWA Capital Improvement Program is presented in the tables on the following pages. The forecast has been updated to reflect the outlook for the remainder of the fiscal year.

Below are updates from the months of December 2022 and January 2023 for the major construction projects currently underway at SOCWA facilities.

### **J.B. Latham Package B**

*Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building seismic retrofit, and minor rehabilitation of Digester 4:*

The project is nearing completion. The new boiler is now in service, the old boiler was removed, the DAFT's are complete, and the old laboratory building was demolished. The project is in the final stages and the contractor is scheduled to demobilize over the next month.



*Old Boiler Removed from Digester Control Building*



*Old Laboratory Before and After Demolition*

### **Environmental Mitigation for the Coastal Treatment Plant Sludge Force Main Replacement Project**

*Restoration and improvements around Aliso Creek as required by the construction permits for the replacement of the force main from the Coastal Treatment Plant to the Regional Treatment Plant:*

The area disturbed by construction has been reseeded with native species and is being monitored by a team of biologists. Weeds are being removed that could hinder native plant growth. Staff has begun working with an environmental consultant, Dudek, on the planning of the mitigation work that is required by project permits.

The rain events in late December and early January resulted in significant mud flows where the hillside was burned from the Coastal fire, near the Coastal Treatment Plant. Staff are assessing any damage to the road and the hydroseed.

Beyond the burn area, the rain provided much needed water for the rest of the hydroseed. Native vegetation is beginning to establish within the site. Native cover is establishing from germination of seeds in the natural seed bank and resprouting of shrubs that were previously cut to grade. Some species may have germinated from the hydroseed mix, including western ragweed (*Ambrosia psilostachya*) and California sage brush (*Artemisia californica*).



*Mud Covering the East Access Trail near CTP*



*Vegetation Growth Along the East Access Trail*

**SOCWA CIP Workplan**

Project Number	Project Name	Revised FY 23 Spending Forecast	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant											
3220/32212L	Facility Improvements B	\$ 2,574,581	Construction ongoing	C	C	C					
3215/3252/ 32231L	Electrical System Upgrades	\$ 250,000	Design underway	D	D	D	D	B&A	C	C	C
3222/3234	Centrate Piping Reconstruction	\$ 112,074	Design underway	D	D	D	B&A	C	C		
32234L	Chlorine Contact Basin Isolation Gates and Structural Rehabi	\$ 100,000						D	D	B&A	C
32226L/32235L/ 3253	Effluent Pump Station Upgrades	\$ 158,750					D	D	B&A	C	C
32232C	Administration Building Roof Reconstruction	\$ 100,000				B&A	C	C			
32233S	Scum Line Replacement	\$ 25,000					D	B&A	C		
32231C	Process Water Repiping	\$ 50,000					P	P	P	D	D
3216/32225S	Energy Building Upgrades	\$ 125,000				P	D	D	B&A	C	C
PC 5 - San Juan Creek Ocean Outfall											
36221O	Surge System Air Valve Replacement	\$ 39,064	Coordinating with Ops			P	C	C			
PC 15 - Coastal Treatment Plant											
3541-000	Export Sludge System Construction (2020)	\$ -	Pipe complete and mitigation work ongoing	ENV	ENV	ENV	ENV	ENV	ENV	ENV	ENV
35228L	Aeration Blower System Upgrades	\$ 50,000	Diffusers purchased and design underway	D	D	B&A	C	C	C	C	
3525	Personnel Building Reconstruction	\$ 308,632	Design underway	D	D	B&A	C	C	C		
35221L	Auxiliary Blower Building Roof	\$ 50,000				B&A	C	C			
3522AL	Drainage Pump Station	\$ 125,000	Design RFP released			D	D	D	D	B&A	C
35238L	Odor Control Scrubber/Foul Air System Reconstruction	\$ 100,000				P	P	P	D	D	B&A
35238L	Relocate Influent Flow Meters	\$ 25,000	Coordinating with Ops		P	P	P				
35239L	West Secondary Scum Skimmers	\$ 50,000				P	D	B&A	C		
PC 17 - Regional Treatment Plant											
3722AL/C/S	MCC A, C, G, H Replacement	\$ 107,156	Design underway	D	D	D	D	D	D	D	D
3758/3759	AWT No.2 Reconstruction (2020)	\$ -	MNWD to manage construction	D	D	D					
47224C	Consequence of Failure Analysis	\$ 75,000	Study underway	P	P	P	P				
3742	Aeration System Upgrades	\$ 52,000					P	P	P		

**SOCWA CIP Workplan**

Project Number	Project Name	Revised	Status	FY 2022/2023				FY 2023/2024			
		FY 23 Spending Forecast		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 21 - Effluent Transmission Main											
3107 (B/C/D)/ 3108 (E)	Air Valve Replacement Construction (D) (2021)	\$ 200,000	Design underway	D	D	D	D	B&A	C	C	
3101/31221B	Trail Bridge Crossing (D)	\$ -	Planning/design underway	P	P	P	P	P			
PC 24 - Aliso Creek Ocean Outfall											
3480	Internal Seal Replacement	\$ 60,100	Design underway	D	D	D	B&A	C	C	C	

P	Planning
CA	Condition Assessment
ENV	Environmental/Permitting
D	Design
B&A	Bidding and Award
C	Construction
P	Procurement

# Agenda Item

## 6.E.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** David Baranowski, Director of Engineering

**SUBJECT:** Capital Improvement Construction Projects Progress and Change Order Report (*January*) [Project Committee Nos. 2, 15 & 17]

---

### Overview

#### *Active Construction Project Updates:*

Attached are the updated CIP reports. Please note that there are four new change orders for Olsson Construction for PC 2 JB Latham Package B project totaling \$95,220.25.

As authorized by the Project Committee 2 Board on March 10, 2022, the Engineering Committee authorized the General Manager to issue payments within contingency amounts for the following Package B Change Orders with Olsson Construction:

- Change Order 66 for \$9,746.81, including 0 additional day(s)
- Change Order 67 for \$8,871.74, including 0 additional day(s)
- Change Order 68 for \$57,233.12 including 0 additional day(s)
- Change Order 69 for \$19,368.58 including 0 additional day(s)

The total of the Change Orders is \$95,220.25, and the revised contract value is \$18,583,464.49 for the J.B. Latham Package B Project.

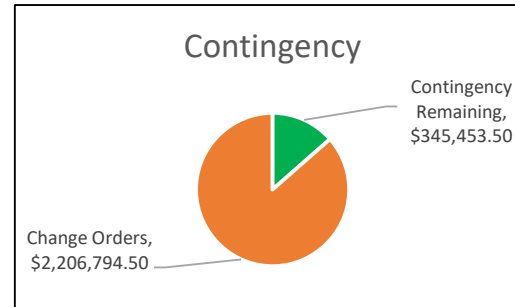
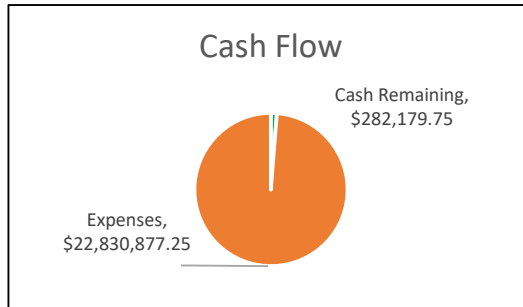
**Recommended Action:** Staff recommend that the Board of Directors receive and file the Report as an information item.

### Project Financial Status

Project Committee	2
Project Name	Package B
Project Description	Plant 1 basin repairs, DAF rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation

### Data Last Updated

January 3, 2023



### Cash Flow

Collected	\$ 23,113,057.00
Expenses	\$ 22,830,877.25

### Project Completion

Schedule	97%
Budget	96%

### Contracts

Company	PO No.	Original	Change Orders*	Amendments	Total	Invoiced
Olsson	13497	\$ 17,325,000.00	\$ 1,258,464.49		\$ 18,583,464.49	\$ 18,242,877.59
Butier	13647	\$ 895,727.00		\$ 1,005,251.00	\$ 1,900,978.00	\$ 1,799,107.00
Carollo	13616	\$ 846,528.00		\$ 616,037.00	\$ 1,462,565.00	\$ 1,267,453.86
TetraTech	13605	\$ 94,000.00		\$ -	\$ 94,000.00	\$ 93,884.70
Ninyo & Moore	14279	\$ 49,399.00		\$ 30,000.00	\$ 79,399.00	\$ 47,005.27
ADS Environmental	16452	\$ 107,200.00	\$ -		\$ 107,200.00	\$ 52,875.00
Hallsten	16578	\$ 251,422.00	\$ 16,715.25		\$ 268,137.25	\$ -
Dudek	17401	\$ 48,360.00		\$ -	\$ 48,360.00	\$ 30,690.00
		<b>\$ 19,617,636.00</b>	<b>\$ 1,275,179.74</b>	<b>\$ 1,651,288.00</b>	<b>\$ 22,544,103.74</b>	<b>\$ 21,533,893.42</b>

\*Values include change orders to be reviewed by Engineering Committee and deductive change orders

### Contingency

Area	Project Code	Amount **	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 969,679.00	\$ 857,807.95	\$ 111,871.05	88.5%
Common	3231-000	\$ 38,120.00	\$ 3,305.76	\$ 34,814.24	8.7%
Solids	3287-000	\$ 1,544,449.00	\$ 1,345,680.79	\$ 198,768.21	87.1%
		<b>\$ 2,552,248.00</b>	<b>\$ 2,206,794.50</b>	<b>\$ 345,453.50</b>	<b>86.5%</b>

\*\* Amount reflects contingency for Construction Contracts only

**Summary of New Change Orders**

Change Order No	MNWD	SCWD	SMWD	\$ Amount
66	\$ 2,107.42	\$ 1,949.36	\$ 5,690.03	\$ 9,746.81
67	\$ 2,047.32	\$ 2,559.16	\$ 4,265.26	\$ 8,871.74
68	\$ 12,374.73	\$ 11,446.62	\$ 33,411.77	\$ 57,233.12
69	\$ 4,187.80	\$ 3,873.72	\$ 11,307.06	\$ 19,368.58
<b>Grand Total</b>	<b>\$ 20,717.27</b>	<b>\$ 19,828.86</b>	<b>\$ 54,674.12</b>	<b>\$ 95,220.25</b>

**Change Orders and Amendments**

Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
<b>Within Contingency, to be reviewed by Engineering Committee</b>						<b>\$ 95,220.25</b>
66	Olsson	3287-000	Digester Control Buildings Modifications	1/12/2023		\$ 9,746.81
67	Olsson	3220-000	Plant 1 and 2 Field Obstructions	1/12/2023		\$ 8,871.74
68	Olsson	3287-000	MCC-F1 Site Modifications	1/12/2023		\$ 57,233.12
69	Olsson	3287-000	DAFT and TWAS area additional slab modification and piping material change	1/12/2023		\$ 19,368.58
<b>Approved by Board of Directors</b>					<b>191</b>	<b>\$ 1,179,959.49</b>
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	12/12/2019	0	\$ 4,725.00
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	6/4/2020	0	\$ 6,343.10
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	6/4/2020	11	\$ 37,969.60
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	6/4/2020	3	\$ 24,001.54

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	8/6/2020	28	\$ 16,370.30
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	8/6/2020	90	\$ 41,993.87
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	8/6/2020	3	\$ 7,412.74
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	8/6/2020	0	\$ (1,829.00)
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	8/6/2020	0	\$ 18,677.63
10	Olsson	3287-000	Duct bank J Interferences	12/17/2020	18	\$ 73,639.42
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	12/17/2020	5	\$ 20,868.52
12	Olsson	3220-000	Duct bank K Interferences	12/17/2020	0	\$ 15,567.08
13	Olsson	3287-000	Digester 3/4 PLC Relocation	12/17/2020	14	\$ 41,367.51
14	Olsson	3287-000	Digester 4 Additional Tank Repair	12/17/2020	18	\$ 33,642.75
15	Olsson	3220-000	Duct bank O Interferences	12/17/2020	0	\$ 1,686.88
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	2/4/2021	0	\$ 42,780.00
17	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	5/6/2021	0	\$ 34,392.02



<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
18	Olsson	3287-000	Integrator Additional Site Visits	5/6/2021	0	\$ 7,571.97
19	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	6/3/2021	0	\$ 29,417.20
20	Olsson	3220-000	Overhead Walkway Removal at Plant 1 Secondary Basins 5 through 9	6/3/2021	0	\$ 62,113.50
21	Olsson	3287-000	Cogeneration PLC Modifications and Integration	6/3/2021	0	\$ 42,922.67
22	Olsson	3220-000	Plant 1 Secondary Basins UV Rated Wear Strips	9/2/2021	0	\$ 28,965.33
23	Olsson	3287-000	MCC-F1 Design Change	9/2/2021		\$ 481,290.42
24	Olsson	3287-000	DAF 2 Investigation Work and Inspection Blast	10/7/2021		\$ 67,838.71
25	Olsson	3287-000	New Fiber Conduit in West Blower Building	10/7/2021		\$ 4,957.71
26	Olsson	3220-000	Plant 1 Primary Basin Conduit Obstruction	10/7/2021		\$ 8,444.20
27	Olsson	3220-000	Plant 1 Influent Channel Additional Coating between Primary Basins 5 and 6	10/7/2021		\$ 15,469.98
28	Olsson	3287-000	MCC-F1 Lighting Changes	10/7/2021		\$ 7,843.04
29	Olsson	3287-000	Digester 3 Ground Rod	10/14/2021		\$ 7,269.16

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
30	Olsson	3220-000	New Fiber Conduits at East Electrical and Storm Water Buildings	10/14/2021		\$ 8,045.43
31	Olsson	3220-000	Plant 2 Primary Influent Channel Repair Credit	12/9/2021		\$ (15,903.00)
32	Olsson	3220-000	Plant 1 and 2 Telescoping Valve Pipe Supports	12/9/2021		\$ 6,132.27
33	Olsson	3287-000	4" Gas Line Routing Modifications	12/9/2021		\$ 18,146.07
34	Olsson	3287-000	Gas Mixer Conduit Conflict	12/9/2021		\$ 12,383.89
35	Olsson	3220-000	P1 Primary Tanks 5 and 6 Temporary Power	3/10/2022		\$ 7,256.05
36	Olsson	3220-000	P1 Primary Tanks Skimmers Starter Modification	3/10/2022		\$ 45,374.13
37	Olsson	3220-000	P1 Primary Tanks Hopper Wall Coating	3/10/2022		\$ 34,505.41
38	Olsson	3220-000	P1 Effluent Channel Conduit Conflict	3/10/2022		\$ 9,274.98
39	Olsson	3220-000	P1 Primary Tanks Torque Limit Switch	3/10/2022		\$ 7,149.86
40	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	3/10/2022		\$ (2,309.09)
41	Olsson	3287-000	DAFT 2 Repair	3/10/2022		\$ 59,403.53
42	Olsson	3287-000	Digesters 1 and 2 Heat Exchanger Layout Reconfiguration Electrical	6/2/2022	1	\$ 12,885.18

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
43	Olsson	3287-000	Digester 3 Heat Exchanger Hot Water Loop Tie-In	6/2/2022		\$ 2,774.58
44	Olsson	3220-000	Plant 1 Primary Basin 1 Shutdown Repair Work	6/2/2022		\$ 1,009.86
45	Olsson	3287-000	Replace Compressor Line and Valve at Digester 4	6/2/2022		\$ 10,762.85
46	Olsson	3220-000	Plant 2 Influent Gates Removal and Concrete Demo	6/2/2022		\$ 5,389.66
47	Olsson	3287-000	DAFT 2 Launder Support Detail	6/9/2022		\$ 45,682.30
48	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Coating Removal	6/9/2022		\$ 111,101.16
49	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Existing Equipment Removal and Reinstallation	6/9/2022		\$ 71,864.17
50	Olsson	3287-000	Digester Mixing Pumps Control Programming Change	8/4/2022		\$ 4,397.77
51	Olsson	3220-000	Plant 1 Primary Basins Skimmers I/O Connection and Programming Change	8/4/2022		\$ 14,237.83
52	Olsson	3287-000	Fiber Patch Cables to Connect the Centrifuge PLC to the Centrifuge Patch Panel	8/4/2022		\$ 3,755.90

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
53	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Coating Removal	8/4/2022		\$ 43,222.24
54	Olsson	3220-000	Plant 1 Secondary Basins Concrete Structural and Basins 2 and 3 Drive Plate Rework	8/4/2022		\$ 20,860.16
55	Olsson	3220-000	Plant 2 Primary Basins Repair and Rehab of Head-Shaft Bearings	8/4/2022		\$ 4,618.44
56	Olsson	3231-000	Board SOCWA Front Office with Plywood to Cover Windows	8/4/2022		\$ 3,305.76
57	Olsson	3220-000	Seal the Openings at Plant 1 Primary Influent and Effluent Channels	8/4/2022		\$ 25,491.03
58	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Existing Equipment Removal and Reinstallation	9/1/2022		\$ 26,498.32
59	Olsson	3220-000	Plant 1 Secondary Basins Existing Embedded Metal Plates	9/1/2022		\$ 4,290.48
60	Olsson	3220-000	Plant 2 Primary Baffle Frame Replacement	9/1/2022		\$ 18,291.57

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
61	Olsson	3287-000	Digester hatch connection, temperature guage adjustment, and potholing	11/3/2022		\$ 9,971.62
62	Olsson	3220-000	Plant 1 Primary and Secondary Basins crack injection, concrete repair, channel cleaning, solids removal	11/3/2022		\$ 146,734.55
63	Olsson	3287-000	Boiler Room Modifications	12/8/2022		\$ 14,797.83
64	Olsson	3287-000	DAFT 1 Repair	12/8/2022		\$ 66,992.33
65	Olsson	3220-000	Secondary Clarifier Telescoping Valve Modifications (Design Error)	12/8/2022		\$ 32,709.94
Duduct-Common	Olsson	3231-000	Energy Building Monorail System Descope (F1-F4)	8/4/2022		\$ (70,585.34)
Duduct-Liquids	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	8/4/2022		\$ (483,605.73)
Duduct-Solids	Olsson	3287-000	Energy Building Modifications Descope (G1-G2, & H1-H2)	8/4/2022		\$ (357,382.60)
HAL 01	Hallsten	3220-000	Cover Layout Modifications	8/4/2022		\$ 16,715.25
<b>Approved by Board of Directors (Amendments)</b>						<b>\$ 1,651,288.00</b>
1CM Common	Butier	3231-000	CM Change Order No. 1	7/13/2021		\$ 48,995.00
1CM Liquids	Butier	3220-000	CM Change Order No. 1	7/13/2021		\$ 294,125.00
1CM Solids	Butier	3287-000	CM Change Order No. 1	7/13/2021		\$ 269,595.00

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
1ESDC Common	Carollo	3231-000	ESDC Change Order No. 1	6/3/2021		\$ 18,210.00
1ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 1	6/3/2021		\$ 109,256.00
1ESDC Solids	Carollo	3287-000	ESDC Change Order No. 1	6/3/2021		\$ 100,151.00
1G Common	Ninyo & Moore	3231-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 5,400.00
1G Liquids	Ninyo & Moore	3220-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
1G Solids	Ninyo & Moore	3287-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
2CM Liquids	Butier	3220-000	CM Change Order No 2	5/12/2022		\$ 196,268.00
2CM Solids	Butier	3287-000	CM Change Order No. 2	5/12/2022		\$ 196,268.00
2ESDC Common	Carollo	3231-000	ESDC Change Order No. 2	12/9/2021		\$ 11,075.00
2ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 2	12/9/2021		\$ 196,440.00
2ESDC Solids	Carollo	3287-000	ESDC Change Order No. 2	12/9/2021		\$ 180,905.00
<b>Potential Change</b>						<b>\$ 172,629.67</b>
PCO 005	Olsson	3287-000	TWAS Slab Modifications	(blank)		\$ 50,000.00
PCO 038	Olsson	3287-000	Existing Valves at Digester 4 Heat Exchanger	(blank)		\$ -
PCO 047	Olsson	3287-000	Digester 3/4 Control Building Tee Replacement	(blank)		\$ -
PCO 054	Olsson	3220-000	Plant 1 Primary Effluent Channel Wall Corrosion	(blank)		\$ -
PCO 055	Olsson	3287-000	Additional Concrete Repair behind Digesters 1 & 2	(blank)		\$ -

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 057	Olsson	3220-000	Recoating of Basin Drive Shaft Steel Plates	(blank)		\$ -
PCO 058	Olsson	3220-000	Aluminum Kickplate at Aeration Basins	(blank)		\$ -
PCO 061	Olsson	3220-000	Steel Plate Coating and Blasting Extra Work	(blank)		\$ -
PCO 063	Olsson	3220-000	Concrete Repair at Secondary Basin Drive Units	(blank)		\$ -
PCO 064	Olsson	3220-000	Effluent Channel FA Duct Footing Conflicts	(blank)		\$ -
PCO 068	Olsson	3287-000	Chopper Pump Impeller Issues	(blank)		\$ -
PCO 070	Olsson	3220-000	Tread Plate-Slide Gate Conflicts at Effluent Channel	(blank)		\$ -
PCO 071	Olsson	3220-000	Effluent Channel Unforeseen Existing Conduit	(blank)		\$ -
PCO 072	Olsson	3287-000	Existing Conflicts at DAFT 2 Stairs	(blank)		\$ -
PCO 075	Olsson	3220-000	Bypass Pumping Plan Issues	(blank)		\$ 74,226.27
PCO 083	Olsson	3220-000	Replacing the P1 Head Shaft Plate	(blank)		\$ -
PCO 095	Olsson	3287-000	Foul Air Rerouting at DAFT 2	9/2/2021		\$ 5,000.00
PCO 106	Olsson	3287-000	DAFT 2 Isolation Valve	(blank)		\$ -
PCO 109	Olsson	3220-000	P1P Influent Channel Scum Gate Openings	(blank)		\$ -
PCO 119	Olsson	3220-000	Seal Openings in P1 Influent Channel Tanks 3 and 4	(blank)		\$ 1,651.88

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 121	Olsson	3287-000	DAFT 1 Additional Repair - Flange	(blank)		\$ -
PCO 135	Olsson	3287-000	DAFT 1 Stair Modifications	(blank)		\$ 412.56
PCO 140	Olsson	3287-000	DAFT 1-TWAS Changes	(blank)		\$ -
PCO 143	Olsson	3287-000	Revisions to DG Line	(blank)		\$ -
PCO 150	Olsson	3287-000	DAFT 1 Air Control Panel Solenoid Valve	(blank)		\$ 2,633.87
PCO 151	Olsson	3287-000	Digester 2 Hot Water Loop Change	(blank)		\$ 29,525.46
PCO 152	Olsson	3220-000	Plant 1 primary helical drives temporary covers	(blank)		\$ 9,179.63
<b>Grand Total</b>					<b>191</b>	<b>\$ 3,099,097.41</b>



# Agenda Item

## 6.F.

**Budgeted:** Yes

**Budget amount:** NA

**Line Item:** PC2, 15 & 17 Lines 5019

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**SUBJECT:** Stanley Convergent Security Solution Inc. was acquired by Securitas Technology [Project Committees 2, 15, & 17]

---

### Summary

This is an informational item to notify the SOCWA Board of Directors that Securitas Technology acquired Stanley Convergent Security Solution Inc.

### Discussion/Analysis

Stanley Convergent Security Solution Inc. is a vendor SOCWA uses for its gate and building access control systems at the three treatment plants. Securitas Technology has acquired Stanley Convergent Security Solution Inc., and SOCWA will continue to use the new company for its gate and building access control systems.

This acquisition does not require a contract amendment or a new contract with Securitas Technology. Section 10 of SOCWA's existing contract with Stanley says Stanley may assign/subcontract any obligations under the Agreement without consent of, but with notification to, SOCWA. SOCWA received notification of the assignment on January 19, 2023.

This agenda item is to notify the SOCWA Board Members of this acquisition and change in vendors.

### Prior Related Project Committee or Board Action(s)

None

### Fiscal Impact

None

**Recommended Action:** Information Item.

# Agenda Item

## 6.G.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**STAFF CONTACTS:** David Baranowski, Director of Engineering

**SUBJECT:** Contract Award for Aliso Creek Ocean Outfall Internal Seal Replacement Engineering Services During Construction [Project Committee 24]

---

### Overview / Background

In 1992, retaining bands were installed inside the Aliso Creek Ocean Outfall (ACOO) to seal fractures in the pipe. The seals were replaced in 2003. Over the years, these seals have been maintained to stay seated against the internal pipe wall. The seals are now in need of replacement.

The design phase began in 2018 but was put on hold during 2020. Black & Veatch is the design engineer. The project design has been restarted and is expected to go out for bid in March for construction in July of this year. The construction cost estimate for the work is \$250,000.

### Prior Related Project Committee or Board Action (s)

This item was reviewed by the Engineering Committee on January 12, 2023.

### Proposal

Black & Veatch submitted the attached proposal to provide engineering support during bidding and construction (ESDC). The proposed fee is \$44,850 and includes the following scope:

- Attending the pre-bid meeting, responding to bidding questions, and preparation of confirmed documents
- Project meetings and site visits
- Submittal reviews
- Change order assistance
- RFI responses
- Inspection visits
- Record drawing preparation
- Project management

Table 1 shows the project allocation and Table 2 shows the allocation by member agency.

Table 1 – Project Allocation

Project	ESDC Services	Funds Available
PC 24, Task 3480-000, Internal Seal Replacement	\$44,850	\$176,837

Table 2 – Allocation by Member Agency

Member Agency	PC 24, Task 3480-000
City of Laguna Beach	\$4,933.50
Emerald Bay Service District	\$349.83
El Toro Water District	\$7,310.55
Irvine Ranch Water District	\$7,068.36
Moulton Niguel Water District	\$19,666.73
South Coast Water District	\$5,521.04
Total	\$44,850.00

**Recommended Action:** The Engineering Committee recommends that the PC 24 Board of Directors approve the contract to Black & Veatch in the amount of \$44,850 for the bidding and ESDC services for the ACOO Internal Seal Replacement project.

22 December 2022

Mr. David Baranowski, P.E.  
South Orange County Wastewater Authority  
Director of Engineering  
34156 Del Obispo St.  
Dana Point, CA 92629

**Subject: Proposal for Aliso Ocean Outfall Seal Replacement Project (Phase 2)**

Dear Mr. Baranowski:

Black & Veatch (B&V) is pleased to submit this proposal to provide bid and construction phase services for the Aliso Creek Ocean Outfall (ACOO) Seal Replacement project (Seal Replacement Project). I will continue my lead role as the Engineering Manager and point of contact for Black & Veatch.

The proposal that follows presents the proposed scope of work, labor effort and fee, and schedule for the Seal Replacement Project Bid and Construction Phase work.

## Scope of Work

The intent of the Scope of Service tasks listed below is to provide bid phase and construction phase services

### **TASK 1.0 BID PHASE SERVICES.**

Bid phase services include attendance at pre-bid meeting, responding to bid phase questions, and preparation of conformed to bid documents.

### **TASK 2.0 CONSTRUCTION PHASE SERVICES.**

Task 3 provides construction support services for the Seal Replacement Project, and includes the following subtasks:

- Task 2.1 – Meetings
- Task 2.2 – Shop Drawing Submittal Review
- Task 2.3 – Change Order Assistance
- Task 2.4 – Respond to Requests for Information
- Task 2.5 – Field and Inspection Services
- Task 2.6 – Conformed to Construction Record Drawings



Services and information provided by SOCWA under Task 2.0 include:

- SOCWA will coordinate with all upstream plants and agencies to shutdown/reduce flow to the outfall during each work event.
- SOCWA will coordinate with the SCWD for bypass pumping at the Coastal Treatment Plant.
- SOCWA will coordinate and alert the City of Laguna Beach Police Department, Orange County Park and Recreation Department, and any other agencies impacted by the construction work activities the day prior to the event or as required by that agency.

**Task 2.1 - Meetings.** The following meetings are included in Task 2.1.

- Construction kickoff meeting
- Access manway investigation meeting
- 5 Preinstallation-day meetings

**Task 2.2 - Shop Drawing Submittal Review.** Consultant will review shop drawings for conformity to construction documents and for general conformance with design concepts and will recommend course of action to Owner. Submittal review comments will be provided to the Contractor in electronic format (PDF).

**Task 2.3 - Change Order Assistance.** Consultant will review and evaluate change order requests relating to the drawings or technical specifications, as requested by the Owner. Recommendations will be provided to the Owner regarding the validity and proposed costs associated with change order requests. Consultant will assist the Owner in administering and processing of change orders, including applications for extensions of construction time.

**Task 2.4 - Respond to Requests for Information.** Consultant will interpret the construction contract documents and respond in writing to Requests for Information (RFIs) relating to the design. Responses to RFIs will be provided to the Contractor in electronic format (PDF).

**Task 2.5 - Field and Inspection Services.** Consultant will be on-site during each of the five (5) seal replacement events to confirm Contractor's conformance with the project specifications, and to review/inspect final work product videos. A daily report will be prepared summarizing the Contractor's activities. Task 2.5 budget includes an additional day (total six (6) events) if required for completion of the work.

**Task 2.6 - Conformed to Construction Record Drawings.** Consultant will revise the construction drawings to reflect actual construction and prepare



conformed to construction record drawings (Record Drawings). Marked-up drawings, surveys, and other records will be provided by the Contractor. During construction, Consultant will inspect the marked sets of drawings and specifications maintained by the Contractor.

Final Record Drawings will include revisions to the drawings resulting from RFIs, change orders, field orders, and any other changes that occur during the construction of the Project. Drawings will be submitted to Owner in electronic format (.PDF and .DWG format).

22 DECEMBER 2022

### **TASK 3.0 PROJECT MANAGEMENT.**

Project management task includes preparation of progress reports, invoices, and meeting agendas and minutes.

## **Labor Hour and Fee**

Table 1 summarizes the labor effort and fee for each task. The total not-to-exceed fee for this effort is \$44,850.

## **Schedule**

- Out for bid – March 2023
- Bids due – April 2023
- Board approval – June 2023
- Contractor Notice to Proceed – July 2023
- Contractor submittals – July 2023
- Installation – July to October 2023

Our Team is ready to start immediately and we look forward to the opportunity to work with you on this important Project. Please call me at (949) 788-4208 if you have any questions.

Yours truly,

BLACK & VEATCH CORPORATION

Rich ten Bosch, P.E.  
Senior Engineering Manager

Attachment

**TABLE 1**  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
Professional Services for Aliso Creek Ocean Outfall Seal Replacement Project (Phase 2)

**Level of Effort and Fee Estimate**

Task	Project Manager	Eng Manager	QC/QA	Staff Engineer	CAD Tech	Clerical Staff	Total Hours	Total Labor	Direct Expense	Total Cost
	Kurtti	ten Bosch	Faraone	Cunniff	Glasgow	Mitchell				
Rate	\$250	\$300	\$240	\$150	\$130	\$105				
<b>Task 1.0 BID PHASE SERVICES</b>										
Pre-Bid Meeting		3					3	\$900		\$900
Respond to Bid Phase Questions		8					8	\$2,400		\$2,400
Conformed to Bid Documents		2			4		6	\$1,120		\$1,120
<b>Task 2.0 CONSTRUCTION PHASE SERVICES</b>										
2.1 Meetings		22					22	\$6,600		\$6,600
2.2 Shop Drawing Submittal Review		14		16			30	\$6,600		\$6,600
2.3 Change Order Assistance		4					4	\$1,200		\$1,200
2.4 Respond to Requests for Information		8					8	\$2,400		\$2,400
2.5 Field and Inspection Services		60					60	\$18,000	\$200	\$18,200
2.6 Conformed to Construction Drawings		4				8	12	\$2,040		\$2,040
<b>Task 3.0 PROJECT MANAGEMENT</b>	6					18	24	\$3,390		\$3,390
<b>SUBTOTAL - PHASE 2</b>	<b>6</b>	<b>125</b>	<b>0</b>	<b>16</b>	<b>4</b>	<b>26</b>	<b>177</b>	<b>\$44,650</b>	<b>\$200</b>	<b>\$44,850</b>

# Agenda Item

## 6.H.

**Budgeted:** No

**Budget amount:** \$640,000

**Line Item:** 15-1580-00-03-00 (2523-028)

**Legal Counsel Review:** No

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**STAFF CONTACT:** Jeanette Cotinola, Procurement/Contracts Manager

**SUBJECT:** Emergency Purchase of Replacement Bar Screen Drum for Coastal Treatment Plant (CTP) Headworks [Project Committee 15]

---

### Summary

The Coastal Treatment Plant Headworks suffered a broken Parkson bar screen drum, and a replacement needs to be procured. The break occurred Wednesday, January 11, 2023. The vendor located a replacement screen, but they required the item be ordered within 5 days to avoid a much longer ordering time delay. The part is integral to the performance of the bar screen system, and it is critical to get it installed as soon as possible.

Under Section VIII Emergency Purchases and Repairs of the SOCWA Delegation of Authority, the General Manager may authorize a purchase that exceeds \$50,000 where the facilities are compromised, and it could result in a sewer spill. In addition, Parkson Corporation is the only vendor authorized to supply these parts in California, and SOCWA staff cannot attain competitive bids.

### Fiscal Impact

This small capital purchase is located in the liquids area of CTP (PC-15). Therefore, the costs will be allocated using the liquids ownership allocations for CTP. The following are the cost allocations for the project:

### Prior Related Project Committee or Board Action (s)

The purchase cost of the available unit is approximately \$52,800, plus tax and shipping costs to be determined at the time of shipping. The General Manager notified the SOCWA Board Chair of the emergency on January 11, 2023. On January 12, 2023, the Engineering Committee voted by 2/3rds vote to consider the issue at their January 12, 2023 meeting. The PC15 Engineering Committee members subsequently recommended that the General Manager proceed with the emergency purchase that exceeded \$50,000.



PC-15 - CTP (Liquids)		
Agency	Cap. Ownership	Allocation
CLB	37.91%	\$20,016.48
EBSD	2.99%	\$1,578.72
SCWD	29.85%	\$15,760.80
MNWD	29.25%	\$15,444.00
Total	100.00%	\$52,800.00

The actual shipping costs, fees, and additional tax will be added to the allocated costs using the liquids ownership percentages shown above when the invoice is received.

**Recommended Action:** Staff recommends that the Board of Directors ratify the purchase of the Parkson bar screen drum (Purchase Order #18567) in the amount of \$52,800, plus tax and shipping costs to be determined at the time of shipping.

# Agenda Item

## 7.A.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**STAFF CONTACTS:** David Baranowski, Director of Engineering

**SUBJECT:** JB Latham Treatment Plant Electrical System Upgrades Additional Design, Bidding and Engineering Service during Construction [Project Committee 2]

---

### Overview

Hazen and Sawyer (Hazen), the design engineering firm for the Electrical System Upgrades project, is near completion of the design for the JB Latham Treatment Plant Electrical Evaluation System, which includes the replacement of MCC-M, MCC-G, and the Plant 1 generator. During the constructability review, several issues were identified, which resulted in SOCWA requesting changes to the project scope. The following summarizes the scope changes that require additional design services:

- Conduit support change from basin mounted to overhead
- Conduit path changes
- Additional structural detailing of conduit supports
- Change locations of pull boxes
- Relocate equipment to facilitate conduit routing
- Modifications to duct bank design
- Optional potholing along the proposed conduit alignment to verify utility conflicts

Hazen submitted the attached proposal to provide additional design services. The additional design services proposed fee is \$112,620. Table 1 shows the project allocation and Table 2 shows the allocation by member agency for the additional design services.

### Prior Related Project Committee or Board Action (s)

This item was reviewed by the Engineering Committee on January 12, 2023.

///

///

///

///

Table 1 – Project Allocation

Project	Original Contract <sup>a</sup>	Amendment No. 1 <sup>b</sup>	Amendment No. 2 <sup>c</sup>	Amendment No. 3	Revised Contract
Task 3252-000, Electrical System Upgrades and Plant 1 Generator Replacement	\$199,546	\$24,390	\$19,980	\$112,620	\$356,536

- The original scope included an evaluation of the electrical system, condition assessment of electrical manholes, and design of MCC-M replacement.
- Amendment No. 1 added the replacement of MCC-G and lighting panels LP-K1 and LP-L to the scope.
- Amendment No. 2 added the replacement of the Plant 1 generator, new conductors, and new temporary generator connection on SWGR MAR-East to the scope.

Table 2 – Allocation by Member Agency

Member Agency	PC2, Task 3252-000
Moulton Niguel Water District	\$25,993
South Coast Water District	\$32,480
Santa Margarita Water District	\$54,148
Total	\$112,620

In addition, Hazen submitted the attached proposal to provide bidding and engineering services during construction (ESDC). The services fee is \$164,350 and includes the following scope:

- Respond to RFIs, issue addendum and pre-bid site walk
- Project management during construction
- Inspection visits
- Project meetings and site visits
- Submittal reviews
- RFI responses
- Change order reviews
- Record drawing preparation

The Engineer's cost estimate is at \$3 million for this project.

Table 3 shows the project allocation and Table 4 shows the allocation by member agency for the bidding and engineering services during construction.

Table 3 – Project Allocation

Project	Bidding and ESDC Services
PC 2, Task 3252-000, Electrical System Upgrades and Plant 1 Generator Replacement	\$164,350

Table 4 – Allocation by Member Agency

Member Agency	PC2, Task 3252-000
Moulton Niguel Water District	\$37,932
South Coast Water District	\$47,399
Santa Margarita Water District	\$79,019
Total	\$164,350

The combined total of the two proposals is \$276,970. Project 3252-000 has \$330,000 in available funds.

**Recommended Action:** The Engineering Committee recommends that the PC 2 Board of Directors approve the contract to Hazen and Sawyer in the amount of \$112,620 for the additional design services, and bidding and ESDC services in the amount of \$164,350 for a total of \$276,970 for the JB Latham Treatment Plant Electrical System Upgrades Project.

January 05, 2023

Ms. Roni Young, P.E.  
Associate Engineer  
South Orange County Wastewater Authority  
34156 Del Obispo Street  
Dana Point, CA 92629

**Re: J.B. Latham Treatment Plant Electrical System Evaluation (SOCWA PO 14331) – Additional Design Services Proposal No. 3**

Dear Ms. Roni Young:

During the detailed design process for the replacement of MCC-M and MCC-G as part of the J.B. Latham Treatment Plant Electrical System Evaluation (SOCWA PO 14331), South Orange County Wastewater Authority (SOCWA) requested changes to the original project scope. The following list summarizes project scope changes requiring additional design services:

- Design Changes
  - Conduit support change from basin mounted to overhead
  - Conduit path changes
  - Additional structural detailing of conduit supports
  - Change locations of pull boxes
  - Relocate equipment (electrical and HVAC) to facilitate conduit routing
  - Modifications to duct bank design
- Significant modifications to the following drawings
  - Partial Site Plan
  - Effluent Pump Station Electrical Room Plans
  - Scum Pump Station Plans
  - East Blower Building and Generator Area Plans
  - Duct Bank, Conduit and Wire Schedule
- The following new drawings are anticipated
  - Overall Site Plan
  - Enlarged Site Plan – West
  - Enlarged Site Plan – East
  - Riser Diagram
  - Electrical Standard Details – II

SOCWA has limited record drawings in parts of the facility where buried conduits will be installed. SOCWA has indicated that they may self-perform potholing along the proposed conduit alignment prior

to construction to verify any conflicts. We have included an optional task (Task 900), which will only be used at SOCWA's discretion, to resolve any conflicts that are discovered.

Following is our proposed fee and schedule of hourly rates organized by task for the additional design services associated with the project scope changes.

TASK		SA	A	AE	Total	
Hourly Rate =		\$280	\$230	\$160	Hours	Labor
<b>Task 200 - Motor Control Center 'M' Final Design</b>						
	Drawings & Specifications - Additional Project Scope	86	124	210	420	\$ 86,200
	Site Visit	6	6		12	\$ 3,060
	Cost Estimate	12			12	\$ 3,360
Task 200 - Subtotal		104	130	210	444	\$ 92,620
<b>Task 900 (Optional) - Conduit Conflict Resolution</b>						
Task 900 (Optional) - Subtotal		0	0	0	0	\$ 20,000
Total		104	130	210	444	\$ 112,620

**Hazen and Sawyer Labor Classifications**

SA- Senior Associate  
A - Associate  
AE - Assistant Engineer

Labor Total	\$ 112,620
Other Direct Costs	\$ -
Total (Labor + ODCs)	\$ 112,620

The project scope changes will also impact the design schedule and following are updated milestones for the remainder of the design. Only one submittal remains in the previous additional task design scope, Bid Set submittal. Hazen proposes to include one additional submittal, 100% Revision 2, which is reflected in the revised schedule. The additional submittal will allow SOCWA to review the additional scope items as part of the 100% Rev2 submittal review process and allow Hazen to incorporate any review comments into the Bid Set.

Task/Milestone	Dates:
100% Revision 2 - Review Submittal	12 weeks after NTP
Bid Set Submittal	3 weeks after 100% Rev 2 Review Comments

Should you have any questions, please contact me at (949) 343-9728 or via e-mail at [cthunhorst@hazenandsawyer.com](mailto:cthunhorst@hazenandsawyer.com).

Very truly yours,



Christopher Thunhorst, PE  
Project Manager  
Enclosure



Hazen and Sawyer  
7700 Irvine Center Drive, Suite 200  
Irvine, CA 92618 • 949.557.8549

December 20, 2022

Ms. Roni Young, P.E.  
Associate Engineer  
South Orange County Wastewater Authority  
34156 Del Obispo Street  
Dana Point, CA 92629

**Re: J.B. Latham Treatment Plant MCC-M and MCC-G Replacement Project – Bidding and Engineering Services During Construction**

Dear Ms. Roni Young:

SOCWA has requested that Hazen provide bidding services as well as engineering services during construction for the J.B. Latham Treatment Plant MCC-M and MCC-G Replacement Project. Attached is the proposed scope and fee to provide these services.

We appreciate the opportunity to continue providing professional engineering services on the project. Should you have any questions, please contact me at (760) 805-7989 or via e-mail at [amlakar@hazenandsawyer.com](mailto:amlakar@hazenandsawyer.com).

Very truly yours,

Alan Mlakar, PE  
Project Manager

Enclosure

## Scope of Work

### Task 1 – Bidding Services

#### 1.1 – RFI Responses

Hazen will respond to up to 10 requests for information during bidding at an average of 4 hours each.

#### 1.2 - Addendum

Hazen will provide updated drawings in the form of up to one addendum.

#### 1.3 – Pre-Bid Site Walk

Hazen will attend a pre-bid site walk.

### Task 2 - Engineering Services During Construction

#### 2.1 - Project Management During Construction

Hazen will provide project management during the 18-month construction phase at 6 hours per month. This includes general coordination, monthly reports, and conference calls.

#### 2.2 - Inspection Visits

Hazen will provide up to 5 inspections at 6 hours each.

#### 2.3 - Project Meetings and Site Visits

Hazen will attend project meetings at the construction site with one engineering representative on a monthly frequency over the duration of the 18-month construction. An average of 6 hours will be designated for each combined meeting and site visit.

#### 2.4 - Submittal Reviews

Hazen will review up to 24 submittals and 16 resubmittals at an average review time of 6 hours each. Review procedures will be as specified in the Contract Documents and as directed by SOCWA. Hazen will review shop drawings for conformance with the design documents.

#### 2.5 - RFI Responses

Hazen will respond to up to 15 requests for information at an average of 6 hours each.

#### 2.6 - Change Order Reviews

Hazen will review and analyze up to 2 change order requests to determine their merit relative to the Contract Documents and design intent. The review of change orders will only be upon the request of SOCWA. Hazen's review and analysis of Change Order Requests will include review of scope and pricing information submitted by the Contractor and/or SOCWA.

#### 2.7 - Record Drawing Preparation

Hazen will prepare record drawings from markups made by the Contractor and reviewed by SOCWA's construction manager. Total number of drawings is anticipated to be 36. Record drawings will be submitted electronically, as pdf files in half and full-size formats and as 2 hard copies, full-size, in Draft and Final.



## **Compensation**

Hazen proposes to complete the scope on a time and expense basis for a not to exceed amount of \$164,350.

**South Orange County Wastewater Authority  
J. B. Latham Treatment Plant  
MCC-M and MCC-G Replacement Project Bidding and Engineering Services During Construction  
December 20, 2022**

TASK		SA	A	AE	Total Hours	Labor
Hourly Rate =		\$280	\$230	\$160		
<b>Task 1 - Bidding Services</b>						
	1.1 - RFI's (10 assumed)	10	15	15	40	\$ 8,650
	1.2 - Addendum (1 assumed)	2	8	8	18	\$ 3,680
	1.3 - Pre-Bid Site Walk		8		8	\$ 1,840
	<b>Bidding Subtotal</b>	<b>12</b>	<b>31</b>	<b>23</b>	<b>66</b>	<b>\$ 14,170</b>
<b>Task 2- ESDC</b>						
	2.1 - Project Management During Construction	48	60		108	\$ 27,240
	2.2 - Inspection Visits (5 assumed)		30		30	\$ 6,900
	2.3 - Project Meetings and Site Visits (18 assumed)	36	52	20	108	\$ 25,240
	2.4- Submittal Reviews (24 submittals and 16 resubmittals assumed)	38	60	142	240	\$ 47,160
	2.5- RFI Responses (15 assumed)	18	30	42	90	\$ 18,660
	2.6 - Change Order Reviews (2 assumed)	8	8		16	\$ 4,080
	2.7- Record Drawing Preparation	16	10	82	108	\$ 19,900
	<b>ESDC Subtotal</b>	<b>164</b>	<b>250</b>	<b>286</b>	<b>700</b>	<b>\$ 149,180</b>
<b>Total</b>		<b>176</b>	<b>281</b>	<b>309</b>	<b>766</b>	<b>\$ 163,350</b>

<b>Hazen and Sawyer Labor Classifications</b>
SA- Senior Associate
A - Associate
AE - Assistant Engineer

<b>Labor Total</b>	<b>\$ 163,350</b>
<b>Other Direct Costs</b>	<b>\$ 1,000</b>
<b>Total (Labor + ODCs)</b>	<b>\$ 164,350</b>



January 23, 2023

## Agenda Item: 8.A.

Board of Directors  
South Orange County Wastewater Authority (SOCWA)  
34156 Del Obispo Street  
Dana Point, CA 92629

**Subject: South OC Wastewater Optimization Blueprint: A Plan for South Orange County's Present and Future Needs**

Dear South Orange County Wastewater Authority (SOCWA) Member Agencies:

We are excited to share this **South OC Wastewater Optimization Blueprint** to optimize service delivery, streamline operations, and implement a long-term vision for safe, reliable, and efficient wastewater treatment in South Orange County for generations to come.

We recognize changing something that has been in place for many decades takes courage and vision. Just as those before us who boldly created this Joint Powers Authority, we look for this Board to being receptive to this new approach to meeting the challenges of today. We believe that this **South OC Wastewater Optimization Blueprint** lays out a path that addresses both the current regional needs, while aligning us all for important strategic opportunities in the future.

### **Solutions for Today & Tomorrow**

To resolve expiring Operating Agreements, the **South OC Wastewater Optimization Blueprint** includes a timely and efficient transition of the operation and maintenance of SOCWA's wastewater treatment facilities in the following manner:

- 1) All member agencies retain desired capacity rights, under new project agreements.
- 2) SOCWA maintains all necessary permits, provides regulatory reporting and compliance, and administers the regional pre-treatment program.
- 3) Santa Margarita operates the J.B. Latham Treatment Plant.
- 4) Moulton Niguel operates the Joint Regional Treatment Plant & Effluent Transmission Main.
- 5) Santa Margarita or Moulton Niguel serve as contract operator at the Coastal Treatment Plant.

### **Significant Benefits to South Orange County**

The **South OC Wastewater Optimization Blueprint** will better meet the needs of our communities by optimizing operations in a cost-effective and efficient manner – while at the same time creating new opportunities to address our region's current and future water demands.

- **Resolves June 29<sup>th</sup> Deadline for J.B. Latham Wastewater Treatment Plant:** SOCWA's operating agreements will begin to expire on June 29, 2023, with the expiration of the J.B. Latham Wastewater Treatment Plant Agreement.
- **Proven Operational Experience:** Both agencies have the resources to develop and implement complex capital improvement projects and are experienced in operating wastewater and advanced water treatment facilities.
- **Safe & Reliable Continuity of Service:** 100% of all represented SOCWA employees will be offered positions within the operating agencies.
- **Creates Potential Opportunities for Expanded Water Recycling and Reuse:** Effective water reuse requires seamless integration and constant monitoring of each water, wastewater, and recycled system – best delivered by a local water agency.

**Aligning Resources Today for South Orange County's Future**

South Orange County faces numerous challenges with historic drought conditions, severe reductions in drinking water supplies from the State Water Project and the Colorado River, rising inflation, and increasing imported water costs. This is happening while Californians are watching atmospheric river storms flood our parched landscape with billions of gallons of water, which tragically is flowing directly to the ocean.

SOCWA, which is built upon agreements dating back to the 1970s, could not have foreseen the technological advancements and opportunities that would make water reuse a viable and cost-effective option for wastewater disposal. Moreover, even if it had the technological capabilities to effectively implement water reuse, SOCWA, as an individual entity that does not provide water or recycled water service, lacks facilities necessary to integrate into the existing water supply infrastructure that serves the homes and businesses in South Orange County. Without some type of change, our region will miss the opportunity to recapture 17.8 million gallons a day of valuable water supplies that could be re-used from our wastewater treatment facilities. This represents nearly one-quarter of the amount of water our region imports.

On behalf of our Boards of Directors, we cordially invite our fellow SOCWA member agencies to join us in working collaboratively to address South Orange County's present and future wastewater needs.

Sincerely,



Frank Ury  
Board President  
Santa Margarita Water District



Duane D. Cave  
Board President  
Moulton Niguel Water District



# South OC Wastewater Optimization Blueprint

Submitted By:

Moulton Niguel Water District  
and  
Santa Margarita Water District

January 23, 2023

## Background

In the early 1970s, the Aliso Water Management Agency (“AWMA”) and the South-East Regional Reclamation Authority (“SERRA”) were formed to obtain Clean Water Act funding to construct wastewater treatment and conveyance infrastructure on behalf of its member agencies with the expressed purpose of developing reclamation opportunities. Since formation, AWMA and SERRA have served as owner, and at times, the operator of wastewater treatment facilities and ocean outfalls in South Orange County, specifically the J.B. Latham Treatment Plant (“JBLTP”), the Coastal Treatment Plant (“CTP”), the Joint Regional Treatment Plant (“J RTP”), the San Juan Creek Ocean Outfall (“SJCOO”), and the Aliso Creek Ocean Outfall (“ACOO”).

In 1994, the South Orange County Reclamation Authority (“SOCRA”) was formed as a regional permitting agency to obtain a waste discharge permit from the San Diego Regional Water Quality Control Board and coordinate recycled water permitting for the member agencies. In 2001, the South Orange County Wastewater Authority (“SOCWA”) was formed to combine AWMA and SERRA, along with SOCRA. The primary charge of SOCWA is the treatment and disposal of wastewater from its member agencies in compliance with the regulatory discharge permits.

Each facility, under SOCWA, has a governing agreement and subsequent amendments, collectively referred to as the Project Committee (“PC”) Agreements, which identify the member agencies involved, the capacity ownership, the term of the facility, among other terms and conditions that govern the operation. The member agencies with capacity rights in a facility are often referred to as “Participating Member Agencies”. As the Joint Powers Authority, SOCWA facilitates the execution of the Project Committee Agreements and, since the 1990s, has provided the operation of the facilities. Many of these facilities are reaching ~50 years of age, which also mirrors the expiration timeline for the PC Agreements. Expiration of the PC Agreements requires the Participating Member Agencies to consider and develop the next phase of facility use and operations.

As the SOCWA member agencies consider this evolving future of wastewater operations, it is critical to acknowledge the role that wastewater currently serves (and will continue to serve) as a resource for water supplies. No longer can sewage be considered as simply a waste product to be treated and disposed. It is imperative to look at options to further expand reuse into local water supplies. South Orange County agencies are evaluating and implementing programs to increase recycled water production, enhance treatment technologies to improve recycled water quality, incorporate urban runoff and first flush storm flows into the water supply, and develop indirect and direct potable reuse projects consistent with existing and emerging regulatory guidelines. Implementation of these programs integrates directly into the agencies’

management of water supply and quality to support the needs of the agencies' customers, also in compliance with regulatory requirements. As the water purveyors who are currently charged with delivering a reliable and high-quality water supply, it is incumbent upon the member agencies to assume full responsibility and complete accountability for the collection, conveyance, treatment, and development of alternative water sources for advanced wastewater treatment programs.

With this proposal, Moulton Niguel Water District ("MNWD") and Santa Margarita Water District ("SMWD") are presenting their preferred approach to governing, administering, and managing the facilities that are currently operated by SOCWA. Specifically, MNWD is proposing to assume responsibility for the operation of the JRTP and the Effluent Transmission Main ("ETM"). SMWD is proposing to assume responsibility for the operation of the JBLTP. Additionally, both MNWD and SMWD are offering to assume responsibility for the operation of the CTP. This proposal outlines an administrative approach, operating budgets, and proposed agreement terms, in addition to identifying the services to remain with SOCWA to support regional wastewater and reuse permitting functions on behalf of its member agencies. The proposal will present the reuse programs and activities that the operating agencies are considering, to reduce reliance on imported water, reduce ocean discharges of treated wastewater, and improve local creeks and beaches. Utilizing the memorandum prepared by the SOCWA Task Force, this proposal will address the various issues and questions required to understand and consider the implementation of this preferred approach.



## Scope of the Proposal

The primary goal of MNWD and SMWD is to enhance opportunities and improve operational efficiencies to support the development of advanced wastewater reuse programs with the integration into existing potable water and recycled water distribution systems, while providing administrative efficiencies and associated cost reductions. The approach involves transferring the ownership of the treatment plants and land outfall assets to the designated responsible agencies with the remaining Participating Member Agencies retaining capacity rights under updated Project Agreements, similar to the Joint Regional Water Supply System, the Baker Water Treatment Plant, and the Upper Chiquita Reservoir. As the regional permitting authority for the ocean outfalls, SOCWA would remain the responsible party for the San Juan Creek and Aliso Creek Ocean Outfalls.

The following table provides a summary of the facilities and the proposed responsible party.

<b>Facility or Asset</b>	<b>Responsible Party (1)</b>
J.B. Latham Treatment Plant	SMWD
Joint Regional Treatment Plant	MNWD
Coastal Treatment Plant	MNWD or SMWD (2)
San Juan Creek Ocean Outfall	MNWD or SMWD (3)
Aliso Creek Ocean Outfall	MNWD or SMWD (3)
Effluent Transmission Main	MNWD
San Clemente Land Outfall	City of San Clemente (4)
North Coast Interceptor	City of Laguna Beach (4)

- (1) All Participating Member Agencies would retain capacity rights as desired under updated project agreements.
- (2) MNWD and SMWD are proposing to operate the Coastal Treatment Plant as a contract operator on behalf of the Participating Member Agencies for a duration acceptable to and at the discretion of those agencies. It is understood that the PC-15 agencies may elect to select a different operator; regardless of the operator at the Coastal Treatment Plant, the other elements of this proposal remain valid.
- (3) SOCWA will retain the ownership of the ocean outfalls consistent with the regulatory permits that SOCWA holds on behalf of its member agencies. MNWD or SMWD will provide the engineering, operations, and administrative support for the operation and maintenance of these facilities in coordination with SOCWA.
- (4) SOCWA is currently the owner of these two land outfalls on behalf of the Cities of San Clemente and Laguna Beach. Both outfalls are currently operated by the responsible party, and the ownership of the pipelines could be transferred, if desired.



## 1. Operations and Maintenance (“O&M”) Approach

The proposed approach to current operation and maintenance is not expected to be substantially modified given the operational successes of the facilities. The benefits of the proposed operational adjustments will be realized through increased implementation of water reuse programs, enhanced operational integration within a larger pool of resources, and reduced costs through improved administrative efficiencies.

### 1.1. Permit Compliance

Currently, the operation and maintenance of the treatment plants is executed to meet compliance with the NPDES permit requirements as issued by the San Diego Regional Water Quality Control Board (“SDRWQCB”). Various other permits also provide specific requirements and recommended guidelines for the operation of the facilities, including, but not limited to:

#### *SDRWQCB 97-52 Recycled Water Permit:*

This permit governs the quality of the recycled water produced by the treatment plants, as well as providing guidelines for permitting use sites (such as irrigation customers). Both MNWD and SMWD are listed as Dischargers under the permit and are eligible to operate facilities governed by the permit.

#### *Department of Occupational Safety and Health Pressure Vessel Permits:*

These permits are issued for pressurized containers, such as air compressors or stationary propane tanks, which require inspection every five years.

#### *Orange County Health Care Agency (“OCHCA”) Hazardous Material and Waste:*

Facilities that use hazardous materials or petroleum products, operate an underground storage tank, or produce hazardous wastes are required to enter the type and quantities of materials into the CERS database, along with Emergency Response Plans and Spill Prevention and Control and Countermeasure Plans, if needed. The OCHCA inspects these facilities biannually to verify the information provided and storage protocols.

#### *Orange County Fire Authority (“OCFA”) Permits and Certificates of Occupancy:*

The Orange County Fire Authority requires inspection of facilities that house hazardous materials, similar to the OCHCA. The OCFA typically inspects facilities on a biannual basis.

#### *South Coast Air Quality Management District (“SCAQMD”) Permits to Operate:*

These permits govern air emissions from the treatment plants and related equipment including, but not limited to flares, boilers, odor scrubbers, and co-gen engines. Depending on the specifics of the permits, equipment may require periodic source testing and submittal of results to the SCAQMD.

*State Water Resources Control Board (“SWRCB”) Stormwater Pollution Prevention Plan (“SWPPP”):*

The SWRCB requires industrial facilities with exposure potential to maintain a SWPPP to control the quality of stormwater runoff from the facilities. This typically includes maintaining best management practices and/or sampling stormwater runoff during storm events to monitor quality.

*USEPA Biosolids Reporting:*

This information is part of NPDES permitting, however, the quantity and quality of biosolids are reported directly to the EPA each year. The number of samples collected and reported to the EPA is contingent upon the tonnage of biosolids produced by the facility.

*Other permits associated with surrounding jurisdictional agencies*

Operational compliance will continue to be met through required permit reporting to the regulatory agencies, including SOCWA, similar to the operation of the treatment plants currently operated by SOCWA and the other plants currently operated by other member agencies.

It is proposed that SOCWA will retain responsibility for the discharge permits and will continue to serve as the vehicle for collecting and reporting regulatory compliance activities. The additional responsibility of meeting the regulatory requirements will be borne by the operating entity. Both MNWD and SMWD already have established a significant track record with achieving regulatory compliance and the same proven procedures will be applied to the operation of the added treatment plants. This history of permit compliance was documented by an independent third party in the Orange County Local Agency Formation Commission San Juan Capistrano Municipal Services Review.

## **1.2. Operations and Maintenance Staffing Overview**

Currently, SOCWA has a combined staff of 40 individuals that are dedicated to the operation and maintenance (“O&M”) of the three treatment plants and related pipelines (e.g., outfalls, etc.). This is what SOCWA considers to be their “Department 1” employees. MNWD and SMWD are proposing to offer positions to 39 of those 40 staff members to continue the successful operation of those facilities. The current staffing levels will be supplemented by the available resources of MNWD and SMWD and the opportunities for growth for those 39 employees will also be significantly enhanced. The only position supporting “Department 1” O&M that will not be offered a position is the Director of Operations, as both MNWD and SMWD have similar positions within their respective agencies. The following table provides a summary of proposed staffing assignments to support the treatment facilities:

<b>Position Category</b>	<b>No. of Employees</b>	<b>JBLTP (SMWD)</b>	<b>JRTP (MNWD)</b>	<b>CTP (MNWD or SMWD)</b>
Operators	18	7	6	5
Mechanics	13	4	5	4
Electrical & Instrumentation	5	2	2	1
Other	3	1 (a)	2 (a)	-
<b>TOTAL</b>	<b>39</b>	<b>14</b>	<b>15</b>	<b>10</b>

(a) Other includes Support Services Manager, O&M Inventory/Purchasing Specialist, and Truck Driver/Mechanic II

The proposed operating agencies also have resources to supplement the transitioned O&M staff. The resources consist of wastewater treatment plant operators, mechanics, and electrical and instrumentation staff. These additional staff have experience working within wastewater treatment plants, including advanced water treatment production facilities. The following table provides a summary of the additional O&M staff that will immediately be available to support the transitioned staff from SOCWA in operating the three facilities.

<b>Position</b>	<b>MNWD</b>	<b>SMWD</b>
Wastewater Treatment Operators (Grade III or higher)	6	12
Wastewater Treatment Operators (Grade II or lower) *	1	0
Mechanics	14	13
Electrical & Instrumentation	9	11
<b>TOTAL</b>	<b>30</b>	<b>36</b>

\*Both agencies strive to have all operators at Grade III and above to respond and troubleshoot issues independently and make operational changes in an expeditious manner.

Key staff from MNWD includes Jesus Garibay, Superintendent of Wastewater Operations, and Jessey Cordero, Senior Operations Engineer. Mr. Garibay is a Grade V operator with nearly 20 years' experience in the field of wastewater treatment. Mr. Garibay is experienced in nearly all areas of wastewater treatment. Prior to assuming his current role at MNWD, Mr. Garibay was the Assistant Superintendent of Treatment Plant Operations at Los Angeles County Sanitation District, overseeing multiple unique facilities over a large geographical area. Mr. Cordero is also a Grade V operator with nearly 10 years' experience in the field of wastewater treatment. In addition, Mr. Cordero possesses an Advanced Water Treatment Operator Grade IV certification. Mr. Cordero's studies include a BS in Biology, minor in Chemistry, as well as an MS in Civil

Engineering. Integrated wastewater treatment operations are overseen by Rod Woods, Director of Engineering, and David Larsen, Assistant Director of Engineering. Mr. Woods and Mr. Larsen are both registered engineers in the State of California and have about 25 years of experience in the water and wastewater industry, both in the private and public sectors.

Key staff from SMWD includes Mr. Ron Johnson, Treatment Manager, who has 29 years of experience, a degree in Chemical Engineering from MIT and is a Grade V Operator, heads both water and wastewater treatment facilities including the Lake Mission Viejo Advanced Water Treatment Plant. Mr. Khoa Nguyen, Lead Operator, with 17 years of experience, along with service in the United States Navy and is a Grade V Operator, manages day to day operations of SMWD's wastewater plants. The Treatment Division is overseen by Mr. Don Bunts, Deputy General Manager, who has over 40 years of experience in design, engineering and operations of water and wastewater facilities and supported by Ms. Tricia Butler, Chief Engineer who has over 35 years' experience in design, engineering and operations of water and wastewater facilities. Mr. Bunts and Ms. Butler are registered engineers in the State of California. In addition to engineering degrees, Ms. Butler has a master's degree in International Management from Thunderbird School of Global Management.

The facilities will be fully staffed from 7:00 am to 5:00 pm on Monday through Friday with reduced staffing on weekends and holidays. Standby personnel will be available to respond at all times to emergency situations and alarms at the facilities. Both agencies maintain responsive standby personnel including wastewater treatment operators, electrical and instrumentation staff, facility maintenance and mechanics, information technology, construction, wastewater collection, etc. In addition, both agencies maintain a comprehensive fleet of specialty vehicles and equipment such as vactor trucks, backhoes, dump trucks, portable bypass pumps, portable generators, etc. Both agencies actively participate in mutual aid programs with neighboring agencies to make their personnel and equipment available to others when needed.

The agencies will ensure that all staff are appropriately trained and certified to work at wastewater treatment facilities consistent with current responsibilities and duties. Staff are encouraged to expand on certifications, knowledge, and training to allow for career development and advancement, including automatic promotional opportunities.

In-house and on-call contracts are utilized to supplement the operation and maintenance staff, as needed and appropriate. Services that are currently utilized by MNWD and SMWD include, but are not limited to:

Services	In-house	On-call
Engineering	X	X
Construction Management and Inspection	X	X
Construction and major repairs	X	X
Geotechnical Services		X
Collection System Support Services	X	X
Laboratory testing services	X	X
SCADA Integration	X	X
Recycled water support services	X	X
FOG consulting services	X	X
Hauling and disposal of grit, screenings and biosolids	X	X
Source testing services		X
Condition assessment specialists		X

### 1.3. Wastewater Reuse Approach and Objective

Both MNWD and SMWD have extensive wastewater reuse programs that have been in place for more than four decades. Currently, both agencies' governing bodies have adopted policy objectives or strategic plans to maximize wastewater reuse as a water reliability investment and good stewards of the environment. The integration of wastewater operations for the J RTP and the JBLTP will further the wastewater reuse opportunities for the South Orange County region. Additionally, there are opportunities to incorporate available wastewater from other regional facilities, such as the Coastal Treatment Plant, to further expand regional partnerships in advanced reuse programs and to share in the benefits throughout South Orange County.

Last year, more than 20,000 acre-feet of treated wastewater, which represents almost 25% of the water imported into South Orange County, was discharged through the ACOO and SJCOO from the SOCWA member agencies. This is a combination of treated secondary effluent and brine discharges from the various permitted facilities within the SOCWA service area. The wastewater reuse programs identified for the various facilities present an opportunity to reduce those discharges and reduce imported potable water by an equivalent amount, further enhancing the water reliability for the South Orange County region.

*J.B. Latham Treatment Plant*

The JBLTP is currently a secondary treatment facility for ocean discharge of effluent. Currently about 6,000 acre-feet of secondary effluent is disposed of through the SJCOO annually. This amount is anticipated to be reduced to 4,500 AF with expansion of the SMWD Oso Creek Water Reclamation Plant. Of that amount, SMWD anticipates approximately 3,000 AF will be available for its reuse and up to the full 4,500 AF with additional participation by participating members.

In three to five years, SMWD anticipates the construction of recycled water facilities at the plant to provide for irrigation demands in its service area, particularly in the City of San Juan Capistrano, for groundwater recharge in the San Juan Watershed and in the future, potential potable reuse. The proposed addition of facilities will be coordinated with South Coast Water District (“SCWD”) and MNWD to determine their respective interest in participation including the potential to supplement proposed ocean desalination.

*Joint Regional Treatment Plant*

The JRTP currently provides approximately 6,000 acre-feet of tertiary treated wastewater for non-potable uses, i.e., irrigation and construction. There remains approximately 2,500 acre-feet of available wastewater that could be utilized to expand MNWD’s reuse programs. Based on a recent recycled water optimization study, MNWD has identified approximately 500 acre-feet of available irrigation demands that could be met through an expansion of the recycled water system. In order to maximize the remaining available wastewater, MNWD is developing a pilot program for a direct potable reuse project that could be constructed at or adjacent to the JRTP in three to four years.

In addition to a direct potable reuse project, MNWD is partnering with the County of Orange to investigate the feasibility of diverting urban runoff flows and capturing first-flush storm flows from the Aliso Creek watershed to supplement the recycled water system. MNWD is also interested in collaborating with its regional partners to incorporate available wastewater from the CTP or the El Toro Water District Treatment Plant to supplement the recycled water system. Enhancing recycled water supplies from other available sources would allow for a larger direct potable reuse facility and create greater opportunities for regional partnerships in that program.

Other components that are being evaluated as a part of the overall wastewater reuse program at the JRTP are the existing Laguna Niguel Lake as a storage for storm flows and urban runoff and source for the recycled water system, a natural treatment system to improve water quality before diversion into the lake, and a community watershed

education center to support regional watershed initiatives for local schools and organizations.

#### *Coastal Treatment Plant*

The CTP currently provides approximately 1,100 acre-feet per year of recycled water to SCWD for non-potable uses. The advanced water treatment facility that produces recycled water for SCWD is operated by SOCWA. To supplement the recycled water system and improve water quality within that system, SCWD constructed the Aliso Creek Water Harvesting Facility. With these water reuse facilities in place, the CTP has available approximately an additional 1,900 acre-feet per year of wastewater from the City of Laguna Beach, Emerald Bay Services District, and SCWD that could be utilized for additional water reuse programs.

Both MNWD and SMWD believe there are opportunities to increase the recycled water production from the CTP that could supplement existing recycled water programs in the region. As noted above, supplementing recycled water flows with additional sources could allow for direct and indirect potable water reuse projects to be scaled larger to further increase regional water reliability and reduce imported water flows into the region through a cooperative partnership.

### 1.4. Safety and Risk Management

In assuming responsibility for the operation of the wastewater treatment facilities, MNWD and SMWD will provide appropriate insurance coverage for workers compensation, property, and liability. MNWD utilizes Joint Powers Insurance Authority (“JPIA”) as its insurance provider and SMWD utilizes California Sanitation Risk Management Authority (“CSRMA”) as its insurance provider. Both agencies have been recognized by their insurance providers for their excellent safety and risk management performance. As operators of the identified facilities, and the entities responsible for the implementation of worker safety programs, MNWD and SMWD would assume full responsibility for any workers compensation claims at the respective facilities. Third-party claims for liability and property claims would be allocated amongst the Participating Member Agencies for each facility based on ownership unless it was determined to be an operator error or negligence, at which point MNWD and SMWD would assume full responsibility.

### 1.5. Energy Consumption

Energy consumption is one of the most significant elements of an operations and maintenance budget. The first thing to ensure is that each facility is signed up for the most cost-effective rate structure with the appropriate utility. Since rate structures periodically change, it is important to have at least annual meetings with the utility provider to ensure that the current rate structure is still the most advantageous for the facilities. Another consideration would be

to ensure that electrical demands are continually optimized. This is particularly relevant on the liquids side of treatment since flows have significantly decreased over time. When feasible, implementing variable frequency drives on direct-driven motors can also result in significant electrical cost savings, pacing the air feed to match the daily varying of the liquid flows and strength of the wastewater. Although usually not as significant as the impact of installing high efficiency blowers or perhaps a smaller sized jockey blower to optimize aeration, secondary clarifier optimization is another area to explore for reduced energy consumption – specifically, reducing RAS pumping, WAS volume, and the overall hydraulic load. Another possible energy savings approach is to evaluate modifying or adding screening or primary filtration to reduce the oxygen demands required for downstream treatment processes. Finally, evaluating the cost effectiveness of utilizing facilities’ biogas for beneficial reuse can result in partial or complete energy neutrality.

A more progressive trend in the wastewater industry involves comprehensive and overall process optimization that is accomplished using technology that digitally clones an entire plant. The calibrated and automated models are connected to live data streams from the plant and configured to execute simulations to continuously emulate the physical plant. These models provide real-time decision support tools for operators and engineering staff to optimize processes from an efficiency and energy perspective. The basic feature of these models is the ability to compare measured and modeled data to develop an understanding of how the activated sludge process is impacted by changes to influent and operating conditions. Although machine learning is currently not a common practice in the United States for plant operations, we have worked with international partners very familiar with this approach and it can certainly be an effective tool for staff to use to evaluate and revise current operational practices.

Both MNWD and SMWD are experienced with the energy consumption practices described above. Regardless, the highest priority immediately following the proposed transition of operations will be to ensure operational reliability and redundancy of the facilities to maintain appropriate treatment in compliance with permit requirements and agency expectations.

### 1.6. Emerging Technologies

The evaluation and implementation of emerging technologies creates opportunities to enhance system operations and efficiencies but requires the appropriate level of analysis to determine the effectiveness of a new technology. This requires agencies to have adequate staff resources available to stay current on the latest technology trends and case studies, follow-up with vendors, engage with the wastewater treatment community for potential collaboration opportunities, and develop pilot programs. One effective approach in tracking new technologies is through a professional organization that screens, vets, and summarizes new technologies for a group of public agencies that comprise the professional organization. For



example, MNWD has been a member of Isle’s Technology Approval Groups (TAG) for both the water and wastewater industries for the last 5+ years. By participating in a group of this type, agencies can hear the firsthand experiences of other public agencies that have researched or piloted emerging technologies of interest by reviewing printed materials and participating in quarterly meetings.

When something is of interest and shows promise, another technique employed by MNWD and SMWD is to pilot the new technology at a small scale to test its effectiveness. Emerging companies are often willing to pay for a portion of the pilot costs, hoping that the project will eventually go full scale. These also make great opportunities for grant applications. Both MNWD and SMWD work with grant consultants to monitor and help secure grants for qualifying projects. SMWD is currently working with vendors to construct a pilot project at the Chiquita Water Reclamation Plant to optimize secondary treatment and solids handling to substantially eliminate the need to truck biosolids off-site for disposal. SMWD previously piloted treatment technology at its Oso Creek Water Reclamation Plant to determine the optimum system for its ongoing reconstruction.

### 1.7. Preventative Maintenance Planning and Execution

Preventative maintenance is a critical component of any well-functioning asset management program. These efforts are necessary to maximize the useful life of assets. Please see Section 2.3 for more on asset management. MNWD and SMWD utilize workorder tracking systems to drive their respective preventative maintenance programs. MNWD recently implemented NexGen as its new Computerized Maintenance Management Solution (“CMMS”) that integrates with its Geographic Information System (“GIS”) solution to allow for tracking of work orders and preventative and corrective maintenance activities for all assets. SMWD utilizes Mainstar as its CMMS for the management of its preventative maintenance program. Operational reports are available from respective CMMS systems to track the execution of work orders. The existing asset management programs that are employed at the three SOCWA facilities will continue to be used as the individual operating agencies implement their respective CMMS/asset management systems.

### 1.8. Software Solutions Available to Support O&M

In addition to the CMMS and GIS solutions discussed above, other software solutions that will help to support the O&M functions for the treatment plants include:

- Supervisory Control and Data Acquisition System (“SCADA”)
  - Ignition
  - Pi (SCADA historian)
  - Factory Talk
  - Win 911

- HachWIMS
- Microsoft Suite
- AutoCad
- R Studio (data analytics software)

Similar to the Preventative and Maintenance programs, SMWD and MNWD will integrate the respective treatment plants into the SCADA software that they use throughout the remainder of their systems. Refer to Section 4 for more information regarding the SCADA approach.

### 1.9. O&M Performance Metrics

Performance metrics are useful to track long-term trends associated with wastewater flows and loadings, permit compliance, quantity of water that is put to beneficial reuse, costs associated with treatment, and opportunities to enhance operational efficiencies. Some of the specific items that will be tracked include, but are not limited to:

- Average Influent Flow
- Average Recycled Water Produced
- Average Wet Tonnage of Biosolids Hauled
- Average Dryness of Biosolids Hauled
- Chemical \$ / MG of Treated Influent
- Power \$ / MG Treated
- Power kW\*h / MG Treated
- Annual number of permit violations
- Preventative work orders completed
- Corrective work orders completed
- Capital budgeting and spending
- Change order management

In addition, the wastewater treatment plant operators track their time associated with capital projects, plant rounds, SCADA monitoring, lab samples/analyses, general maintenance, alarm troubleshooting, reporting, and scheduling/coordinating. MNWD and SMWD will work with its partner agencies in each facility to identify other areas of operational and financial data trends that would be beneficial.

## 2. Engineering Approach

Collaboration is critical when developing and executing the Capital Improvement Programs (“CIP”) of any organization. MNWD and SMWD work collectively within their organizations to define the capital needs of a facility or asset (Operations), to determine the appropriate timing and approach for addressing those capital requirements (Engineering), to ensure adequate funding is available through long-range financial planning (Finance), and to communicate the impacts and successes to our local stakeholders (Communications and Outreach). Additionally,

for jointly owned facilities, MNWD and SMWD work with their partners to develop and ultimately present well thought out capital plans to ensure the goals for the facilities and agencies are being delivered. For these efforts to be successful, it is critical to maintain and update a 10-year projection of capital improvement projects. As part of an annual review, the 10-year capital program is refined based on:

- work that has been completed,
- feedback from operations and engineering staff for those projects that have previously been identified for completion,
- reprioritization of previously identified projects following additional investigations or condition assessments and,
- addition of any new projects that may have been determined over the course of the previous year.

Ultimately, an annual fiscal year budget is presented for approval for the upcoming capital year spending and funds are appropriated for the fiscal year and may be expended in compliance with the Board adopted purchasing policies. Capital projections for subsequent years provide a snapshot of the assets requiring replacement, refurbishment, or potentially a condition assessment to allow for appropriate financial planning.

### 2.1. Capital Planning

The development of the CIP is an on-going process. Assets that need replacement and refurbishment (“R&R”) are identified through a continuous process of inspections, assessments, and review of CMMS outputs. Annually, all projects are compiled into one budget document to provide a complete picture of projected CIP projects identified during that fiscal year. The proposed CIP budget document would identify the proposed projects with a brief description, summary of the anticipated project costs based on best available information, and the expected timing for implementing each project. Each Participating Member Agency would have the opportunity to review and comment on the proposed capital improvement program prior to approval.

The CIP prepared by SOCWA staff has undergone significant changes over the last several years. During the last 3-4 years, there have been four different individuals that have overseen the development of the CIP for the treatment plants. Regardless of the individual, the common theme has been that the CIP was developed considering traditional and conventional wastewater treatment only, with limited regard for future reuse objectives of the member agencies, or consideration of new processes and technologies that would enhance treatment and reuse objectives. The CIP primarily contains projects that are based on rehabilitating and replacing existing facilities in kind.

Upon assuming operation of the treatment plants and pipelines, the approach would be to initially utilize the SOCWA-developed CIP budgets for the first fiscal year. During that initial year, comprehensive 10-year capital improvement programs will be reviewed and updated for each of the facilities to ensure a reliable and resilient treatment operation to address aging infrastructure, wet weather flows, and power outages. Further, the CIP will consider input from the Participating Member Agencies to ensure alignment with agencies' goals and with consideration for the following:

- JBLTP:
  - Develop facilities to provide for wastewater reuse based on the goals of the Participating Member Agencies
- JRTP:
  - Enhance the primary and secondary treatment to provide reliable recycled water and support advanced wastewater treatment
  - Implement salinity management for Title 22 water
- CTP:
  - Work with the Participating Member Agencies to develop a 10-year capital improvement program based on the work prepared by Hazen & Sawyer
  - Consider opportunities for enhancing the reuse of secondary effluent
- ETM:
  - Consider pipe stabilization or protection projects adjacent to Aliso Creek
  - Perform an appropriate condition assessment to identify targeted preventative repair work
- ACOO and SJCOO:
  - Support SOCWA in updating the current capital improvement program

## 2.2. Unanticipated and Emergency Projects

The goal of a good asset management program is to minimize the potential for unanticipated and emergency projects and to mitigate the impacts of an emergency should it develop. However, it is impossible to eliminate unanticipated or emergency projects that could be the result of a natural disaster, operational wear and tear, or some other factor. Emergency projects require immediate action to ensure that operations continue or to mitigate a negative financial impact. These projects will be addressed by appropriate staff of either MNWD or SMWD and reported to the Participating Member Agencies at the earliest possible opportunity. Unanticipated projects are evaluated when they come up and prioritized against the current fiscal year CIP to ensure appropriate financial resources are available to manage the unanticipated project. Both MNWD and SMWD have available technical support teams and cash reserves to address any emergency situations that may arise to ensure that immediate actions required are implemented. Monthly or quarterly updates will be provided to the

Participating Member Agencies and although not typical, fiscal year budget amendments would be proposed if deemed absolutely necessary.

### 2.3. Asset Management

The goal of any asset management program is to maximize the useful life of all assets while ensuring a reliable and cost-effective operation. MNWD's and SMWD's approach to asset management was recently provided to SOCWA and its member agencies to comply with the requirements of the new NPDES permits. In summary, the horizontal asset (i.e., pipeline) approach varies substantially from the vertical asset (i.e., treatment plant) approach to managing assets. In general, and considering the relative age and condition of facilities, the most cost-effective approach for the treatment plants to ensure reliability includes a comprehensive assessment of all aspects of the facility, including sitework, structures, mechanical systems, electrical, and instrumentation, with all required improvements being addressed under a single project. Following completion, both MNWD and SMWD will rely heavily on their respective CMMS systems to maximize the useful lives of assets in the most cost-effective manner.

### 2.4. Capital Project Execution

Capital projects are defined and developed in a collaborative manner amongst operations, engineering, and finance staff at MNWD and SMWD. Ultimately, as noted above, all capital projects will be presented to the Participating Member Agencies for review and approval. Simple and straightforward projects within the treatment plants will be executed by District staff. Specialized and more complex projects will be designed in-house and/or by consultants and constructed by third party contractors utilizing either a traditional design-bid-build process or a progressive-design-build process (depending on the nature of the project). In addition to experienced staff, comprehensive and sophisticated contract documents are needed to protect agencies against unanticipated changes during construction. MNWD and SMWD have staff that are experienced in the successful development and execution of large capital projects (greater than \$20 million). These staff include engineers, construction managers, and inspectors.

### 2.5. Capital Program Staffing

SOCWA currently has three full-time positions identified to support the execution of its capital improvement program and to support the operations staff. All three positions will be offered positions with either MNWD or SMWD to support the execution of the capital improvement program. Additionally, MNWD currently employs ten registered civil engineers in the State of California and eight full-time employees dedicated to construction management and inspection functions. SMWD currently employs nine registered engineers and six construction management and inspection professionals. Both agencies also rely on senior operations staff to review plans and specifications, particularly electrical and mechanical. Depending on

workloads, as well as the size and complexity of a contemplated project, contract services may be utilized to perform construction management and inspection services. All third-party consultants will be managed closely by MNWD or SMWD staff. Other contract services that may be utilized include surveying, geotechnical, environmental services, specialized inspection such as coatings during construction, and commissioning.

#### 2.6. Software Solutions Available to Support the Capital Program

Software utilized to support capital engineering will include, but is not limited to:

- Microsoft Suite
- GIS system
- CMMS system
- SCADA
- AutoCAD
- Various construction management and scheduling software

### 3. Management and Administrative Support

The proposal includes full-scale management and administrative services to support high-level operations, maintenance, and engineering functionality of the facilities. Those services include finance and accounting, human resources, information technology, purchasing and procurement, and administrative support. Where appropriate and necessary, as directed by the Participating Member Agencies in the various facilities, the MNWD and SMWD proposal includes a full suite of administrative support including financial planning, grant procurement, and legislative support, as well as community outreach and communication.

#### 3.1. Finance Structure

Each facility would have its own account structure to appropriately and accurately account for costs associated with the operation and maintenance activities. For MNWD, the account structure is established through Business Units. This allows for budgets to be developed, costs to be allocated, and reporting to be generated specific to each business unit. With that structure, regular budget-to-actual reports can be generated for presentation to other partner agencies as requested, but at a minimum, during Participating Member Agency meetings. This is consistent with the financial structure used for other multi-partner facilities that MNWD manages, such as Plant 3A.

In 2019, SMWD implemented a new ERP system with multiple dimensions to be able to capture accurate reporting of costs for both operations and maintenance by facility and by project. SMWD's Enterprise Resource Planning (ERP) is currently utilized to track costs associated with jointly owned facilities. Similar to MNWD, regular budget-to-actual reports would be generated for review as requested, and at a minimum during Participating Member Agency meetings.

### 3.2. Management and Administrative Staffing

The following SOCWA staff will be offered positions with either MNWD or SMWD to support the administrative operations of the facilities:

- Accounting (3)
- Safety and Risk Management (1)
- Procurement and Contract (1)
- Human Resources (1)
- Information Technology (1)

The only positions supporting management and administrative services not proposed to be offered positions are the General Manager and the Finance Controller, as both MNWD and SMWD have similar positions within their respective agencies. In addition to the staff identified above, the following table shows the additional staff at MNWD and SMWD that will be immediately available to support the administration of the facilities.

<b>Function</b>	<b>MNWD</b>	<b>SMWD</b>
Accounting and Finance	11	13
Procurement and Contracts	3	2
Human Resources	3	3
Information Technology	6	5
Administrative Support, including outreach	7	7

The proposal is for the identified support staff to provide support for the operations of the facilities and also to be integrated into the various departments within MNWD and SMWD to support the rest of the ongoing operations and activities. In addition, MNWD and SMWD will continue the practice of shared purchasing where it currently exists for chemicals and solids disposal and will also look for other opportunities that could benefit the South Orange County region.

### 3.3. Software Solutions Available to Support Administrative Functions

The primary software solution to support the various administrative functions for MNWD is the Enterprise Resource Planning (ERP) software solution, JD Edwards. This supports the financial budgeting, accounting structure, purchasing, and human resources functions. For the tracking of contracts, utilizing macro functions in Excel has been more than sufficient to ensure that no exceedances and contract expirations occur. MNWD is currently implementing Planet Bids in select areas. For construction management functions, it has really depended on the size and

complexity of the project. For simple projects, Microsoft Suite with e-mail will often suffice. However, for more complex projects, both MNWD and SMWD have experience utilizing platforms such as Procore or Oracle products.

The primary software solution to support the various administrative functions for SMWD is the Enterprise Resource Planning (ERP) solution software, Tyler Munis, which was implemented in 2019. This supports the financial budgeting, accounting structure, purchasing, contracts, and human resources functions, similar to MNWD's ERP. SMWD uses Project Primavera for construction management along with other platforms mentioned above.

#### 4. SCADA Approach

MNWD has standardized on Ignition SCADA software. Since SOCWA does not use Ignition, the transition would be implemented similar to when MNWD assumed operations at Plant 3A. MNWD's SCADA Communications wireless network would be used for communicating with the treatment plants remotely. This network already has a connection to the JRTP; however, MNWD plans to add a secondary connection so that there would be redundancy for communication. MNWD is currently able to operate the JRTP Advanced Water Treatment facility from both Plant 3A and remotely. Since CTP is currently not connected to MNWD's SCADA Communications wireless network, the appropriate antenna(s) would be installed at CTP to connect with the existing network.

As far as the integration and translation process, MNWD would likely operate using the existing SCADA for a defined time period, while an Ignition-based SCADA system was built. At which point, the two operating SCADA systems will be compared to make sure the new system was reliable. This is the same process utilized at Plant 3A. Ignition is a full featured software, so it will be able to handle any integration or translation that is happening now.

SMWD has a full-service in-house SCADA team with the capability to build control centers, fully program and integrate facilities as well as establish a communication network. The District utilizes Factory Talk for its SCADA Software. With the recent integration of the City of San Juan Capistrano ("CSJC"), the District rebuilt the entire SCADA system as well as the backbone network for 40% of the cost the CSJC had received from a competitive proposal. SMWD will work closely with the SOCWA SCADA professional and the existing operators to review the existing system and the requirements for operations to develop a transition plan and install a new SCADA system that is integrated into the SMWD network. The SMWD system allows for complete remote operation of its facilities with 100% back-up. The operators at each of the existing treatment plants and the standby operators have access to data, alarms and control at all the plants.



Alarm response and communications would be handled in a manner consistent with current practices. Alarms are received by the entire team on a 24-7 basis and responded to as appropriate. Initial investigation is completed by the treatment plant operators, and, depending on the nature of the alarm, the operators may call in individuals from maintenance, electrical and instrumentation, or engineering as needed. Standby coverage is provided by all departments on a 24-7 basis and individuals are required to respond within 30 or 60 minutes, depending on the nature of the issue. Communications are maintained through telephone calls, texts, e-mails, and hand radios as appropriate.

## 5. Regulatory Compliance & Lab Services

SOCWA will continue to provide regulatory compliance and regional permitting services to its member agencies. As a part of these services, SOCWA staff will continue to support its members through industry organizations, advocates and regulators. Lab services in support of the treatment plants will either be provided by the laboratory at the JRTP or at the SMWD Chiquita Water Reclamation Plant (“CWRP”) and supplemented with third-party contract laboratory services as required.

SOCWA will retain the employment of necessary staffing to support regional permitting and regulatory compliance services under the existing Joint Powers Agreement. It is anticipated that three staff members will be required to support those functions:

- Environmental Compliance (1)
- Source Control (1)
- Administrative Support (1)

Additionally, SOCWA may continue to contract for outside support and research services through consultants, universities and member agencies.

### 5.1. NPDES Discharge Requirements

SOCWA holds the NPDES Discharge permits for both the SJCOO and the ACOO. Each of those permits contains the discharge requirements for the various treatment facilities that discharge to the outfalls. SOCWA will retain compliance oversight of the discharge permits, including supporting its member agencies, as necessary.

SOCWA will continue to contract the appropriate ocean monitoring and testing as required per the discharge permits and regulatory compliance. Compliance reporting for the individual treatment plants will be accomplished in a manner consistent with the current reporting protocols for the treatment plants that are not currently operated by SOCWA. MNWD or SMWD will provide the resources necessary to support the operation, maintenance, and

engineering services as required. No additional resources are anticipated to support the current compliance reporting protocols.

### 5.2. Recycled Water Use Permit

SOCWA currently holds the recycled water use permit on behalf of some of its member agencies, specifically SMWD, MNWD, SCWD, and Trabuco Canyon Water District (“TCWD”). TCWD is currently considering obtaining its own recycled water use permit from the San Diego Regional Water Quality Control Board. SOCWA will retain the recycled water use permit and compliance oversight of that program consistent with the current program protocols. No additional resources are anticipated to support the current compliance reporting protocols.

### 5.3. Air Quality Permits

For the operation of the treatment plants, MNWD and SMWD will be responsible for ensuring compliance with the applicable air quality permits in the operation of various equipment, e.g., flares, boilers, co-generation engines. Sampling protocols and source testing will be accomplished in a manner similar to the protocols at the treatment plants currently operated by MNWD or SMWD. Existing resources and programs are in place to accomplish the necessary sampling, testing, and reporting, and no additional resources are anticipated.

### 5.4. Pretreatment/Industrial Dischargers and Diversions

SOCWA will continue to administer the pre-treatment and industrial waste discharge program in support of its member agencies. The administration of the program will be consistent with protocols currently in place. SOCWA will continue to provide the necessary staffing to administer the program.

### 5.5. Lab Services

SOCWA currently employs seven (7) individuals to provide laboratory services for the three treatment plants that SOCWA currently operates. The existing laboratory staff currently employed by SOCWA will be offered positions at MNWD to provide lab services primarily for the JRTP and Plant 3A. Lab services for the JBLTP will be provided by SMWD’s laboratory at the CWRP. Lab services for the CTP will be provided by the laboratories at the JRTP with backup from the lab at the CWRP. Reporting will be provided in a manner consistent with the current reporting protocols in place for the treatment plants that are not currently operated by SOCWA.

## 6. Budgeting and Finance

Both MNWD and SMWD possess a strong financial position with high credit ratings, sufficient reserves, and available debt capacity that will allow both agencies to support the needs of the existing treatment facilities while also providing the ability to advance the capital improvements and reuse programs necessary for the South Orange County region. Appropriate budgeting and financial forecasting help to ensure the financial stability of MNWD and SMWD while providing adequate funding to provide a high-level of service. This approach will help to provide predictability for our partners and simplify the budgeting and invoice process as well.

Both agencies currently support jointly owned facilities and provide budgeting and financial reporting services including the Upper Chiquita Reservoir, the South County Pipeline, San Juan Basin Authority, Fenner Valley Water Authority, Plant 3A, Eastern Transmission Main, and Upper Oso Reservoir.

### 6.1. Proposed Budget for Wastewater Treatment Operation

MNWD and SMWD have developed the draft budgets below based on projections building from SOCWA's current FY budget. Going forward, MNWD and SMWD will develop a budget in collaboration with the Participating Member Agencies for each of the facilities. The primary anticipated savings are through economy of scale in the administration, information technology, engineering services and financial support through two agencies with significantly more resources to provide in each of these areas and resulting reductions from SOCWA's costs.

The following table shows the current FY 2022-23 SOCWA budget for each facility and the additional services (Recycled Water Program and Pre-Treatment Program), as well as the proposed budget based on the change of responsible agency as identified in this proposal.

Facility	SOCWA FY 2022-23 Budget	Proposed O&M Budget
J.B. Latham Treatment Plant	\$7,386,475	\$6,127,177
Joint Regional Treatment Plant	\$8,810,840	\$7,798,995
Coastal Treatment Plant	\$3,263,109	\$3,067,966
Effluent Transmission Main	\$25,371	\$19,814
San Juan Creek Ocean Outfall	\$829,030	\$799,966
Aliso Creek Ocean Outfall	\$818,301	\$781,561
Pretreatment Program	\$285,853	\$264,050
Water Reclamation Permits	\$402,769	\$274,375
Unfunded Liabilities (1)	\$1,849,069	\$1,849,069
<b>Total (2)</b>	<b>\$23,670,816</b>	<b>\$20,982,974</b>

(1) Unfunded liabilities are tracked as a separate expense at SOCWA. The methodology for addressing this expense is defined further below.

(2) Totals may not foot due to rounding.

The table above includes the allocated administration, management, and engineering costs for each facility based on SOCWA's adopted budget and the proposed budget. A breakdown of the budget for each of the treatment plants is provided in the table below. The proposed budgets are broken down into the major cost categories.

<b>Cost Category</b>	<b>JBLTP</b>	<b>JRTP</b>	<b>CTP</b>
Salaries & Benefits	\$2,345,503	\$2,824,271	\$1,736,365
Repairs & Maintenance	\$1,211,504	\$1,521,850	\$577,145
Utilities	\$760,976	\$658,101	\$244,331
Biosolids	\$685,125	\$905,380	\$23,345
Lab Services	\$40,600	\$48,103	\$34,510
Chemicals	\$554,190	\$1,245,405	\$210,105
Administration (1)	\$373,959	\$475,995	\$187,247
Other (2)	\$155,321	\$119,890	\$54,918
<b>Total (3)</b>	<b>\$6,127,177</b>	<b>\$7,798,995</b>	<b>\$3,067,966</b>

(1) Administration is based on a 6.5% administration rate of the O&M expenses for the facility.

(2) Other includes various miscellaneous expenses, including certifications, training, conferences, etc.

(3) Totals may not foot due to rounding.

Using the current split of the SOCWA FY 2022-23 budget, MNWD and SMWD have identified the allocation of expenses and anticipated savings for each of SOCWA's member agencies. The allocation of the proposed budget is subject to adjustment based on discussions with the SOCWA member agencies and development of updated Project Agreements. Table 6-1 shows the allocation to each member agency and the anticipated annual O&M savings. The table includes a value for the assumed expenses by MNWD and SMWD that are not allocated to the member agencies. These expenses are related to the proposed staffing positions that will be offered to existing SOCWA staff that will support the operation of the treatment plants, as well as other functions and services within MNWD and SMWD.

**Table 6.1 - Allocation of Expenses and Anticipated Savings by Member Agencies**

Facility Name	City of Laguna Beach	City of San Clemente	El Toro Water District	Emerald Bay Service District	Irvine Ranch Water District	Moulton Niguel Water District	Santa Margarita Water District	South Coast Water District	Trabuco Canyon Water District	Total (1)
<b>JBLTP</b>						\$1,271,870	\$3,558,273	\$1,297,034		<b>\$6,127,177</b>
<b>JRTP</b>	\$482,972		\$635,480	\$28,758		\$6,280,566		\$371,219		<b>\$7,798,995</b>
<b>CTP</b>	\$1,238,583			\$87,418		\$227,760		\$1,514,205		<b>\$3,067,966</b>
<b>ETM</b>			\$7,690		\$8,941	\$3,183				<b>\$19,814</b>
<b>SJCOO</b>		\$145,130				\$120,836	\$435,832	\$98,168		<b>\$799,966</b>
<b>ACOO</b>	\$83,733		\$126,150	\$8,491	\$141,774	\$328,274		\$93,139		<b>\$781,561</b>
<b>Pretreatment</b>	\$10,225	\$46,191	\$8,430	\$9,495	\$34,946	\$39,446	\$72,644	\$42,673		<b>\$264,050</b>
<b>Water Reclamation</b>						\$80,113	\$116,762	\$35,826	\$41,674	<b>\$274,375</b>
<b>Unfunded Liabilities</b>	\$197,968	\$12,629	\$64,254	\$8,608	\$14,025	\$823,690	\$380,395	\$347,148	\$353	<b>\$1,849,070</b>
<b>Assumed Expenses</b>						\$1,087,469	\$688,701			<b>\$1,776,170</b>
<b>Proposed Budget</b>	\$2,013,481	\$203,950	\$842,004	\$142,770	\$199,686	\$10,263,207	\$5,252,607	\$3,799,412	\$42,027	<b>\$22,759,144</b>
<b>Current SOCWA Budget</b>	\$2,159,704	\$213,038	\$933,235	\$153,244	\$211,743	\$10,327,930	\$5,371,699	\$4,238,696	\$61,528	<b>\$23,670,817</b>
<b>Anticipated Savings</b>	<b>\$146,223</b>	<b>\$9,088</b>	<b>\$91,231</b>	<b>\$10,474</b>	<b>\$12,057</b>	<b>\$64,723</b>	<b>\$119,092</b>	<b>\$439,284</b>	<b>\$19,501</b>	<b>\$911,673</b>

(1) - Totals may not foot due to rounding

### 6.2. Five Year Forecast of Costs

There are two categories of expenses that will influence the five-year forecast of future expenses associated with the operation of the treatment plants. The projection of salaries and associated benefits is stable and predictable, however the labor hours anticipated will vary based on facility maintenance needs. Consumables at the treatment plants, such as electricity, chemicals, and biosolids costs will vary based on purchasing contracts and established utility rates. The five-year forecast is not expected to vary substantially from the historical increases experienced at SOCWA. As noted above, budgets will be developed annually in conjunction with the Participating Member Agencies for review and approval.

In Section 2, a summary of the capital engineering and budget approach was provided. The 10-year capital forecast of expenses will be reviewed during the first year of facility operations and updated in collaboration with the Participating Member Agencies based on their needs and goals. With the expected capital investments currently planned and those that are also anticipated to support future wastewater reuse goals, appropriate financial forecasting and planning is necessary to support those investments. Both MNWD and SMWD are highly rated agencies by Fitch and S&P Global, providing an opportunity to smooth out sizable capital needs over decades through debt financing should agencies be interested in options beyond PAYGO. MNWD and SMWD have the necessary financial expertise, can meet the reserve requirements, and have available debt capacity to support financing programs for needed capital investments including low-interest loans or bonds.

### 6.3. Agency Historical Budgeting and Transparency

For the past three years, MNWD and SMWD have met the budgets approved by their respective Boards of Directors while maintaining a high level of service and strong financial position. MNWD maintains a 10-year financial forecast to help provide consistency in its expense and revenue projections for its customers and partners. Those projections are updated annually to address any changing conditions, such as increased imported water and utility costs.

Both SMWD and MNWD publish annual budgets for their service areas. Each agency has numerous financial transparency accolades from the Government Financial Officers Association. As previously noted, budgets will be prepared and presented for each of the facilities to the Participating Member Agencies for review and approval. Invoices will be based on actual expenses and reporting will be made available to show expenses compared to budgets. Finally, annual audits will be developed to provide an independent review of financial activity. At year end, MNWD and SMWD will work with its partners to provide necessary financial data and reporting to appropriately account for their capacity rights in the various facilities. Both MNWD and SMWD operate and maintain jointly owned assets on behalf of

different partners and have experience supporting the budgeting, invoicing, and accounting for jointly owned assets in a multi-party capacity, such as those considered with this proposal.

#### 6.4. CalPERS Pension & Other Post-Employment Benefits Liabilities

The SOCWA Fiscal Year 2022-23 budget is \$1.8 million for its unfunded pension and Other Post-Employment Benefits (“OPEB”) liabilities. SOCWA has adopted a methodology for allocating these unfunded liabilities to its member agencies. This methodology was based on the allocation of labor across the various facilities and services and has been used in the most recent budgets to allocate expenses for SOCWA’s annual Unfunded Accrued Liability (“UAL”) payment to CalPERS and the normal costs associated with its retiree medical program (OPEB). With the implementation of this proposal, the growth of those liabilities is expected to significantly be reduced. MNWD and SMWD are proposing to lock in that allocation for on-going liabilities associated with unfunded pension and OPEB expenses. As SOCWA will remain as a regional Joint Powers Authority, it will continue to be invoiced by CalPERS for UAL and OPEB expenses and annually can allocate those expenses to agencies based on the table below, which is the calculated allocation of expenses by SOCWA.

Agency Name	Allocation of Unfunded Liabilities (%)	FY 2022-23 Budget (\$)
City of Laguna Beach	10.71%	\$197,968
City of San Clemente	0.68%	\$12,629
El Toro Water District	3.47%	\$64,254
Emerald Bay Service District	0.47%	\$8,608
Irvine Ranch Water District	0.76%	\$14,025
Moulton Niguel Water District	44.55%	\$823,690
Santa Margarita Water District	20.57%	\$380,395
South Coast Water District	18.77%	\$347,148
Trabuco Canyon Water District	0.02%	\$353

## 7. Governance

Each facility or asset operated by MNWD or SMWD on behalf of the Participating Member Agencies will have a separate project agreement to define the relationship between the parties and the terms and conditions for that facility and associated operation. With the expiration of the current Project Committee Agreements, new agreements are required regardless of the proposal. The SOCWA Joint Powers of Authority (“JPA”) Agreement would remain to govern the on-going regional permitting, regulatory compliance, and regulatory and legislative advocacy in support of the region, however, the JPA Agreement is proposed to be updated.

The project agreements for each of the facilities will be developed and managed similar to the Baker Water Treatment Plant Agreement operated by the Irvine Ranch Water District or the Joint Regional Water Supply System Agreement operated by SCWD. A collaborative effort will be undertaken to develop the proposed agreements for each of the facilities by the Participating Member Agencies. Some of the proposed elements of the agreements include, but are not limited to, the following:

- Capacity Rights: The capacity rights of each Participating Member Agency would remain as is currently defined.
- Governance:
  - An Administrative Committee would be formed consisting of a representative of each Participating Member Agency.
  - Each agency would have an equal vote.
  - Meetings would be held quarterly or as needed to review facility operations, financial reports, construction progress, and capital planning.
- Budget:
  - A budget for the upcoming fiscal year would be presented annually to the Administrative Committee for review, comment, and approval.
  - The budget will include the anticipated expenses to operate and maintain the facilities, the proposed capital improvements, and an updated projection for the 10-year capital program.
  - Administration expenses to support the operation of the facilities will be charged as a fixed 6.5% rate of total O&M expenses.
  - Approval of the budget requires a majority vote of the Participating Member Agencies; schedule will include time for Participating Member Agencies to review with their governing board as desired.
  - Expenditure of funds within the approved O&M budget will be carried out in compliance with the purchasing policy for the responsible agency.
- Capital Project Approval:
  - Capital projects will be presented to the Administrative Committee for review, comment, and approval.
  - Contracts will be awarded by the Board of Directors for the responsible agency following presentation to the Administrative Committee and will be subject to the provisions of the purchasing policy for the responsible agency.
- Designated Operator:
  - The responsible agency identified in the proposal will assume operational responsibility for the facilities.
  - The Participating Member Agencies may change the designated operator with the following voting thresholds:
    - A 2/3 vote of the Participating Member Agencies, and;



- A minimum of 50% of the capacity rights for the facility.
- Liabilities:
  - Responsible agency would provide insurance coverage for the facilities. The cost of coverage is included in the administration fee.
  - Insurance will include property, liability, and workers compensation. The responsible agency would propose the levels of coverage for review by the Participating Member Agencies.
  - The responsible agency would assume full responsibility for any workers' compensation claims at the facility.
  - For property or liability claims:
    - The responsible agency would assume full responsibility for claims or fines if determined to be operator error or negligence.
    - The Participating Member Agencies would be responsible for claims or fines under normal course of business and would be allocated based on capacity ownership.

Additional terms and conditions may be incorporated into draft agreements as necessary and appropriate. The summary above is intended to provide a high-level overview of some key terms. MNWD and SMWD welcome the opportunity to work with our partners in developing, refining, expanding, or adjusting provisions to achieve the successful execution and implementation of new project facility agreements.

## Next Steps

MNWD and SMWD are proposing to work with its partner agencies to execute the concepts and framework contained within this proposal. To do so, the next steps necessary to implement these provisions include, but are not limited to:

- Develop the necessary project agreements. MNWD and SMWD would propose to meet with the Participating Member Agencies and work with corresponding legal counsel to develop and finalize project agreements. A draft project agreement, similar to the Baker Water Treatment Plant, will be provided by MNWD and SMWD as a starting point for those discussions.
- Meet with the SOCWA employees and their representatives to discuss the process for transitioning staff to either MNWD or SMWD.

We anticipate there are additional steps necessary to advance these efforts forward, and we look forward to working with our partner agencies to identify and complete those steps. Additionally, we are happy to meet with the Participating Member Agencies to discuss any questions, concerns or considerations to facilitate moving the implementation of this proposal forward.

# Agenda Item

## 8.C.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Amber Baylor, Director of Environmental Compliance &  
Jim Burror, Acting General Manager/Director of Operations

**SUBJECT:** Historical Recycled Water Development & State Opportunities

---

### Overview

Due to historic drought conditions, Governor Newsom released the California Water Supply Strategy<sup>1</sup>, in August 2022, with a goal to increase recycled water production by 800,000 AFY by 2030. To accomplish the strategic goals, a host of 'Task Forces' are being deployed to streamline the Governor's goals. SOCWA staff have been invited to discuss those opportunities to assist agencies in streamlining permitting to execute on the production of recycled water. The intent of this agenda item is to align regional goals for recycled water to meet local demand and statewide goals in an expedited manner.

### Discussion/Analysis

An updated presentation will be provided to discuss the strategy for regional coordination.

### Prior Related Project Committee or Board Action(s)

Agenda Item 7.D in the January 5, 2023, Board of Directors meeting, staff provided an update to the discussion with the California Association of Sanitation Agencies (CASA) and the State Water Resources Control Board on the Governor's Water Supply Task Force.

At the January 12, 2023, Engineering Committee meeting, staff provided a presentation on the recycled water production coordination based on expanded production and planning efforts in the SOCWA service area with the State Water Resources Control Board staff and CASA regarding the Governor's Water Supply Taskforce. Presentation attached herein.

**Recommended Action:** Information Item.

---

<sup>1</sup> California's Water Supply Strategy: Adopting to a Hotter, Drier Future. August 2022. Source:  
<https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/Water-Resilience/CA-Water-Supply-Strategy.pdf>

# Agenda Item

## 8.D.

**Budgeted:** N/A

**Budget amount:** N/A

**Line Item:** N/A

**Legal Counsel Review:** No

**Meeting Date:** February 2, 2023

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operation

**STAFF CONTACT:** Amber Baylor, Director of Environmental Compliance

**SUBJECT:** Tentative Time Schedule Order R9-2023-0006 Comment Letter  
(Letter provided *under separate cover*)

---

### Summary

Tentative Time Scheduled Order (TSO) R9-2023-0006 is an order requiring designated responsible stormwater permittees to comply with bacteria standards at REC-1 waters under TMDL requirements prescribed in the regional municipal separate storm sewer system NPDES permit (MS4) for the San Diego Region<sup>1</sup>. While SOCWA is not enrolled as a permittee under this permit, SOCWA is required through both San Juan Creek Ocean Outfall<sup>2</sup> and Aliso Creek Ocean Outfall<sup>3</sup> NPDES permits to conduct fecal indicator bacteria (FIB) testing at 25 shoreline locations<sup>4</sup> under the Unified Beach Monitoring Program (Unified Program) in coordination with Orange County Public Works and Orange County Health Care Agency. For compliance with the MS4 NPDES permit and associated water quality improvement plans, stormwater permittee utilize receiving water data collected through the Unified Program.

SOCWA has engaged in the MS4 compliance discussion due to PC12 recycled water production concerns, exfiltration from sewers, and other illicit discharges that are proposed to be contributing to the beach water quality exceedances in the San Diego Investigative Order<sup>5</sup>. SOCWA staff requests submittal of a letter to the San Diego Regional Water Quality Control Board (SDRWQCB) for testing and compliance purposes as described in detail below and in the draft letter, due to the SDRWQCB February 17, 2023 by 5:00 p.m.

---

<sup>1</sup> Regional Municipal Separate Storm Sewer System (MS4) Permit. San Diego Regional Water Quality Control Board. Order R9-2013, Amended November 18, 2015.

<sup>2</sup> San Juan Creek Ocean Outfall NPDES permit. San Diego Regional Water Quality Control Board. Order No. R9-2022-0005  
[https://www.socwa.com/wp-content/uploads/2022/08/SJCOO\\_r9\\_2022\\_0005.pdf](https://www.socwa.com/wp-content/uploads/2022/08/SJCOO_r9_2022_0005.pdf)

<sup>3</sup> Aliso Creek Ocean Outfall NPDES permit. San Diego Regional Water Quality Control Board. Order No. R9-2022-0006  
[https://www.socwa.com/wp-content/uploads/2022/08/ACOO\\_r9\\_2022\\_0006.pdf](https://www.socwa.com/wp-content/uploads/2022/08/ACOO_r9_2022_0006.pdf)

<sup>4</sup> SOCWA Ocean Monitoring Overview. <https://www.socwa.com/ocean-monitoring/>

<sup>5</sup> San Diego Investigative Order (SIO). San Diego Regional Water Quality Control Board. Order R9-2019-0014.

## Discussion/Analysis

The focus of the draft comment letter to the SDRWQCB is to include an allowance for the Copermittees to utilize an updated method for identification of live versus dead virus signals of HF183 in the watershed in source tracking work plans as a compliance pathway.

As way of background, SOCWA funded research in FY 2018-19 through FY 2021-22 for the identification of live versus dead virus molecular signals of DNA used for developing water quality standards through California State University, Fullerton. The impetus for this funding was due to signals of the molecular marker HF183 in watersheds using Title 22 recycled water. It was hypothesized by MS4 copermittees that Title 22 recycled water was contributing to the exceedance of water quality objectives in REC-1 locations for non-point source permittees covered under NPDES Order R9-2013-0001. The SOCWA funded research found 2-3 orders of magnitude difference in live versus dead virus signals of HF183 in both treated disinfected recycle water effluent at wastewater treatment plants and at the terminus of the San Juan Creek and intersection of the Pacific Ocean. These results are currently in the journal submittal process for publication.

The TSO indicates that copermittees have elected to choose the compliance pathway in Provision 6.b.(3)(d) for waste load requirements to TMDL impacted waterbodies. The TMDL impacted waterbodies for bacterial exceedance are the terminus of Aliso Creek and San Juan Creek. The Tentative TSO also indicates that receiving water monitoring data was used for the South Orange County Water Quality Improvement Plan. Table 7 in the TSO provides numeric thresholds for demonstrating compliance with receiving water limitations. The footnotes in Table 7 note that for watersheds utilizing disinfected recycled water, HF183 can indicate a false positive and can therefore not be used to demonstrate compliance due to the Quantitative Microbial Risk Assessment (QMRA) study by Boehm and Soeller<sup>1</sup> which calculated risk based thresholds for aging sewage to recreational water quality illness rates.

SOCWA staff appreciates the SDRWQCB making note of potential false positives in waters dominated by recycled water. However, the elimination of the use of HF183 may hamper the efforts to demonstrate compliance for copermittees. SOCWA staff would like to propose the allowance for HF183 live versus dead virus application as an allowable methodology as a potential compliance pathway to be included in the Tentative TSO.

**Recommended Action:** Staff recommends that the Board of Directors authorize the Acting General Manager to: 1) Sign the Comment letter as distributed, and 2) submit the final letter to be included in the Tentative TSO.

---

<sup>1</sup> Boehm and Soller, 2020, Refined ambient water quality thresholds for human-associated fecal indicator HF183 for recreational waters with and without co-occurring gull fecal contamination. Microbial Risk Analysis. Available at <https://doi.org/10.1016/j.mran.2020.100139>.

# Agenda Item

## 8.F.

**Board of Directors Meeting**

**Meeting Date:** February 2, 2023

**TO:** Board of Directors  
**FROM:** Jim Burror, Acting General Manager/Director of Operations  
**SUBJECT:** General Manager's Status Report

---

### ADMINISTRATION

#### Member Agency Requests

The General Manager is directed, as of the May 10, 2022, Executive Committee Meeting, to include a summary of Member Agency Requests in the GM Report. The following requests of SOCWA staff have been received and responded to:

- Trabuco Canyon Water District:
  - Continued working on costs and options to contract with SOCWA for SNMP and allow TCWD to exit SOCWA.
- Irvine Ranch Water District / El Toro Water District:
  - Continued working to support the transition of IRWD's capacity to ETWD under the terms of a proposed Agreement.
- OCEA Representatives met with MNWD, SMWD, and SCWD Board members and Managers to discuss the upcoming proposals with SOCWA-represented employees.

### ENVIRONMENTAL COMPLIANCE

#### South Coast Air Quality Management District (SCAQMD) Permits

SOCWA staff contacted SCAQMD staff again in January 2023 regarding changing permit conditions for the Regional Treatment Plant (RTP) and the JB Latham Treatment Plants. SOCWA staff provided applications for updates as described below. The changes at RTP will remove the requirement for the costly continuous emission monitoring system (CEMS). SOCWA staff has demonstrated compliance with our permits and the Inspection and Management Plan (I & M Plan). The proposed future changes are to streamline administrative oversight.

Regional Treatment Facility permit updates:

1. Internal Combustion Engine >500HP - Application #623126 (846 days elapsed)
2. Inspection and Management Plan (I & M Plan) - Application #624192 (846 days elapsed). Please note that we are utilizing Rule 1110.2 updates approved by SCAQMD on November 1, 2019, which allowed the use of CEMS for the engine at the facility.

JB Latham Facility permit updates:

1. Inspection and Management Plan (I & M Plan) - Application #626408 (711 days elapsed)
2. Odor Scrubber - Application #626201: Change of Condition (649 days elapsed)
3. Flare - Application #626199: Change of Condition (649 days elapsed)
4. SCR - Application #626196: Alteration/Modification (649 days elapsed)

### PC12 Salt and Nutrient Management Plan (SNMP)

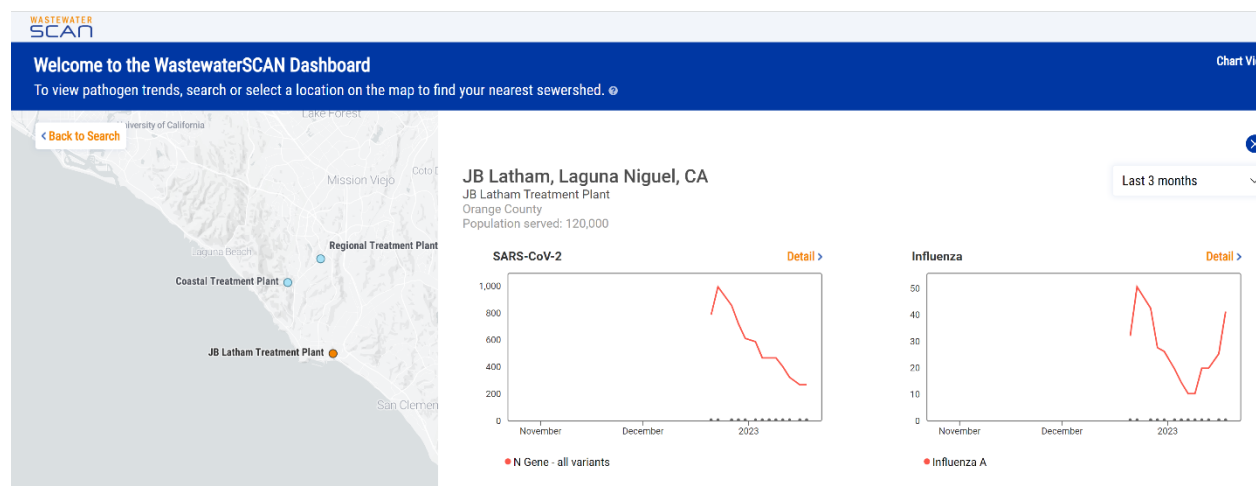
SOCWA staff met with PC 12 representatives to review the strategy, work developments, model approach, and timeline of deliverables associated with the SNMP for delivery to the San Diego Regional Water Quality Control Board (SDRWQCB) by the end of FY 22-23. The SDRWQCB has the ability to review the SNMP and provide a response six months after delivery of the SNMP. SOCWA anticipates budgetary funds to be within budget for these efforts for this year, with staff contributing to the delivery of the draft SNMP work product. Staff anticipates a public stakeholder meeting in April 2023 to review the SNMP draft.

### ROMS-BEC Model Engagement Update

SOCWA staff received a proposal to update the ROMS-BEC source code to account for particle attenuation and diffusion as well as the schematization around the outfalls to better account for nutrient discharge that is being incorporated into the model. This proposal was shared with the Southern California Coastal Water Research Project (SCCWRP), SDRWQCB, CASA, and Clean Water SoCal with comments for incorporation into the SCCWRP work plan on the development of the model. The SCCWRP work plan is divided into three phases: model validation, climate variability, and an independent review of the model. SOCWA's comments requested that the model is to be updated with additional algorithms not currently included in the model. The SDRWQCB requested at the December 2022 meeting that SOCWA work with SCCWRP on the work plan and report back to the SDRWQCB in February or March with the agreed upon approach. SOCWA staff continue engagement due to this request.

### Verily & Wastewater SCAN

The wastewater data associated with the Verily project is now live and can be found at: [data.wastewaterscan.org](https://data.wastewaterscan.org). The interactive dashboards allow the public and public health officials to observe trends of viral load data at each of the three SOCWA wastewater treatment facilities. An example snapshot of the JB Latham facility can be visualized here:



SOCWA continues to work with South Coast Water District (SCWD) staff regarding the request for discharge to the sewer from the Harbor Development project. SOCWA is working with representatives from the Harbor project and the SDRWQCB related to the discharge from the groundwater dewatering portion of the project. SOCWA staff provide oral updates to the SOCWA Engineering Committee on pertinent developments with the project.

## **OPERATIONS**

### Electric Vehicles Fleet Conversions

SOCWA staff solicited input on member agency planning to comply with the regulations to start purchasing vehicles starting in 2025 at the December Engineering Committee meeting. The member agencies requested that a formal request for input be set to the member agencies for SOCWA to understand their detailed planning better.

### Natural Gas Prices

Southern California Gas Company has notified its customers that natural gas prices have increased substantially. SOCWA has not received the January bills, but there are anticipated to be 300% to 400% higher similar to increased bills received by homeowners in the area.